Satellite HD Digital Television Recorder

User's Manual

FOXSAT-HDR

The default password is 0000.

freesat+

HUMAX

Notice

Thank you for purchasing a Humax Foxsat-HDR (Digital Television Recorder) Your Foxsat-HDR supports freesat+ provided by the freesat service.

Freesat+ explained:

- **Accurate Recording** – the product will track the start and end times of scheduled recordings meaning the recording will start and stop at the times sent by the broadcasters. If a programme starts early or runs late the record time will automatically be adjusted to record the whole programme*.
- **Series Recording** – if a programme you wish to record is in a series, you can now record the whole series.
- **Schedule Tracking** - If the programme changes to a different time or day the changes will be detected and the programme will still record.
- **Alternate Instances** - if a scheduled recording(s) overlap with other programmes already set to record, you will be given the option to record one of the programmes if it is repeated.
- **Split Recordings** - if a programme has two parts split by another programme in the Guide (e.g. a film divided in to two parts by a News programme) both parts will record.

Note: The above freesat+ features are available on channels where the correct and accurate data is being broadcast. Some channels may not support some/all services.

❖ Accurate recording is only available when the Record > Early Start Time & Late End Time options are set to **On Time**.

Notice

Thank you for purchasing a HUMAX product. Please read this user's manual carefully to be able to safely install, use and maintain the product at maximum performance. Keep this user's manual next to your product for future reference. The information in this user's manual is subject to change without notice.

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Warranty

The warranty does not cover parts which may become defective due to misuse of the information contained in this manual.

Trademarks

- Manufactured under license from Dolby Laboratories.
  Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**
  Indicates a hazardous situation which could result in serious injury.
- **Caution**
  Indicates a situation which could damage the equipment or other apparatus.
- **Note**
  Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use and maintain the installation.

Meaning of Symbols

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates **dangerous voltage** inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Notice

Instruction about the 'WEEE' Symbol

This product should not be disposed with other household wastes at the end of its working life. Please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. This will prevent possible harm to the environment or human health from uncontrolled waste disposal.

- **Domestic users:**
  Please contact either the retailer where you purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling.
- **Business users:**
  Contact your supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Safety Warning

This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAINS SUPPLY

90-250V a.c., 50/60Hz

- Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company.
- Disconnect the product from the mains before you start any maintenance or installation procedures.

2. OVERLOADING

- Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. LIQUID

- The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

4. CLEANING

- Disconnect the product from the wall outlet before cleaning.
- Use a light damp cloth (no solvents) to dust the product.

5. VENTILATION

- The slots on top of the product must be left uncovered to allow proper airflow into the unit.
- Do not stand the product on soft furnishings or carpets.
- Do not stack electronic equipments on top of the product.

6. ATTACHMENTS

- Do not use any unsupported attachments as these may be hazardous or cause damage to the product.

7. CONNECTION TO THE SATELLITE DISH LNB

- Disconnect the product from the mains before connecting or disconnecting the cable from the satellite dish. Failure to do so can damage the LNB.

8. CONNECTION TO THE TV

- Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

9. EARTHING

- The LNB cable must be earthed to the system earth for the satellite dish.

10. LOCATION

- Place the product indoors to avoid exposing it to lightning, rain or sun.
- Do not place it near a radiator or heat register.
- We recommend that the product has 10 cm clearance from any other appliances susceptible to electromagnetic influences, such as a TV or a VCR.
- Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.
- If you place the product on a rack or a bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.
- Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall.
- A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

Safety Warning

11. LIGHTNING, STORM OR NOT IN USE

- Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

12. EXTRANEOUS OBJECTS

- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

13. REPLACEMENT OF PARTS

- When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorised substitution may result in additional damage to the unit.

Warning

1. To avoid damage of the power cord or plug;

- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord.
- Make sure to disconnect the power cord holding the plug.
- Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
- The mains plug, as a disconnection device, shall remain readily accessible by the user.

2. To avoid electrical shock;

- Do not open the main body.
- Do not insert metal or inflammable objects inside the product.
- Do not touch the power plug with wet hands.
- Disconnect the power cord in case of lightning.

3. To avoid damage of product;

- Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local retailer if the product is out of order.

4. Hard Disk Drive

- Do not move the product or turn the power off suddenly while the hard disk drive is running.
  The company shall not be liable for any corruption of data on the hard disk drive caused by the carelessness or misuse of users.

5. Standby Mode

- It is recommended to leave the product in Standby mode during long periods when not being used e.g. Over night. The product will record any schedules set while in Standby mode.

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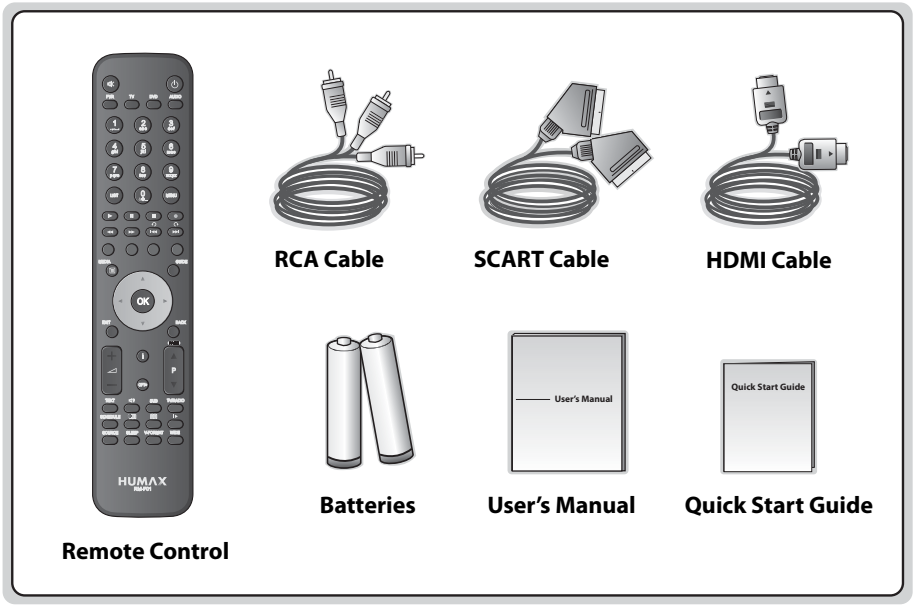
1. Before Using the Product

This chapter provides detail instructions on the product and its accessories.

1.1 Package Contents

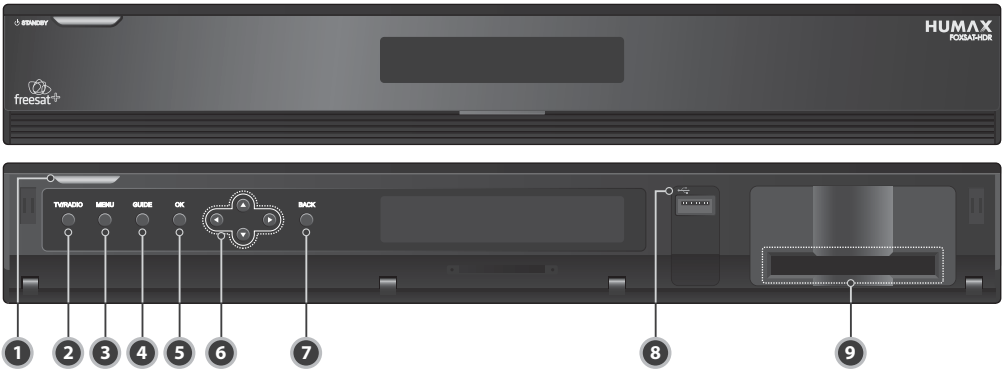
Please check all package contents before using your product.



Note:
- Faults may occur if the remote control is left without battery for a long time. Always keep the battery inserted in the remote control.
- Package contents may vary according to area.

Caution:
- The company shall not be liable for problems caused by changing hard disk drive by user.

1.2 Front Panel



1. **STANDBY BUTTON**
   Switches between operation and standby modes.
2. **TV/RADIO BUTTON**
   Switches between TV and radio modes.
3. **MENU**
   Displays the main menu.
4. **GUIDE**
   Displays the programme guide.
5. **OK**
   Selects a menu or confirms the selected operation.
6. **ARROW BUTTONS**
   ◀/▶: Replays or skips scenes.
   ▲/▼: Moves the TV/radio channel up or down.
7. **BACK**
   Closes and returns to the previous menu and screen.

8. USB Port
Connect a USB Pen drive or external USB HDD (for archiving recordings, or transfer of MP3 or JPEG files).

9. **CI-MODULE SLOT**
   A slot for a CI-Module. Module is not supplied.

Note: The front of the product is subject to change without notice.

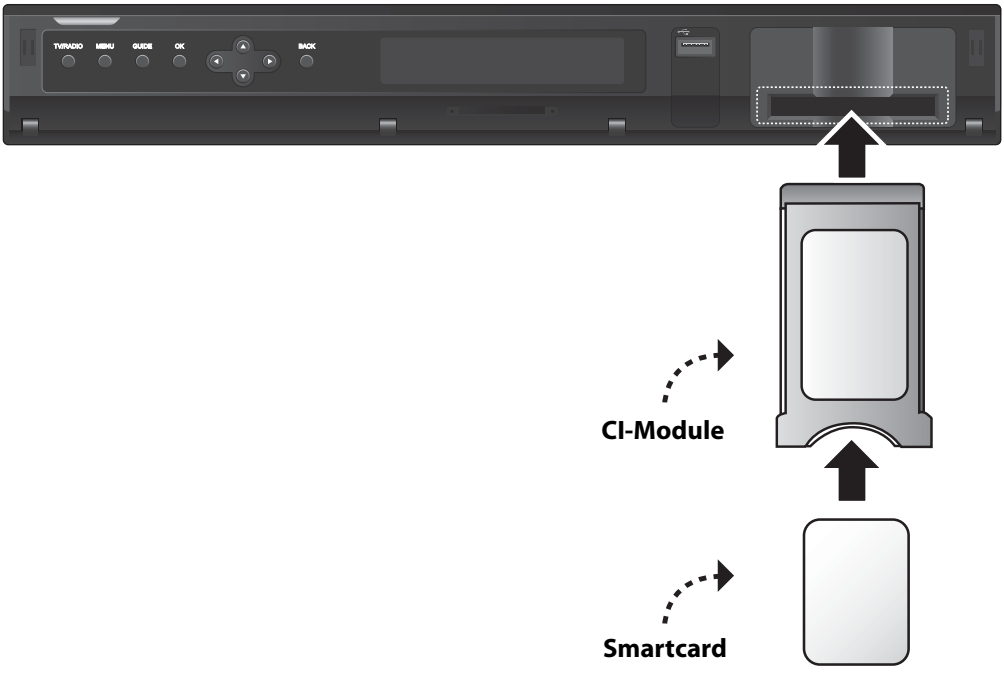
1.3 Common Interface

Although some TV and radio services are free to air, others are available on a subscription basis and can only be enjoyed via a Conditional Access component.

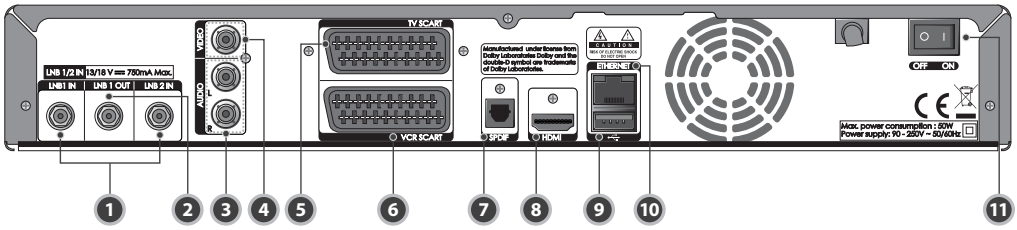
Inserting a CI (with Smartcard)

A CI-Module looks like a PC map (PCMCIA) for laptops. There are different kinds of CI-Modules, suitable for different coding systems; Irdeto, Conax and more. Additionally to the CI-Module, a Smartcard is needed to decode the channels.

1. Open the right-hand flap on the front panel of the product to expose the card slot.
2. Follow the instructions of the module and insert the Smartcard into the CI-Module.
3. Keep the CI-Module (with the Smartcard) horizontal.
4. Insert the CI-Module into the slot.



1.4 Rear Panel

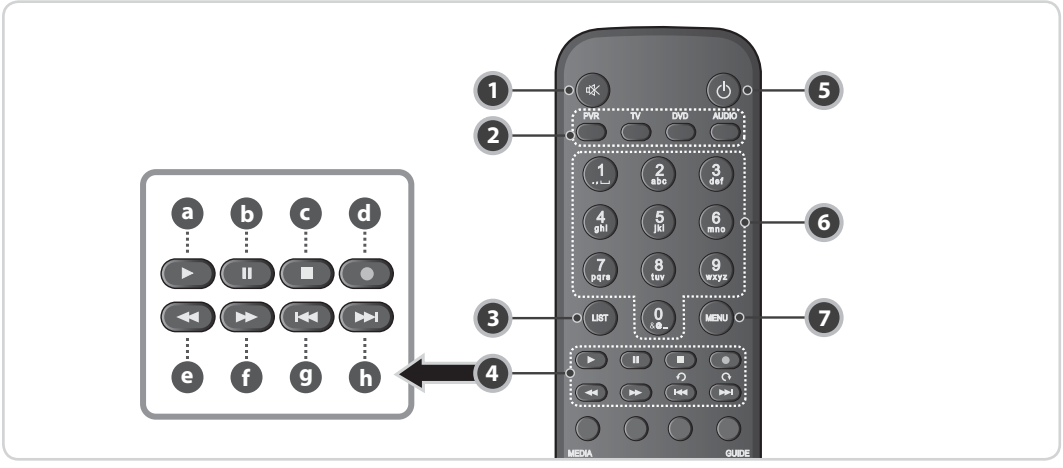


1. **LNB 1 IN, LNB 2 IN**
   Connects a satellite antenna cable. Up to two cables can be connected.
2. **LNB 1 OUT**
   Connects another digital satellite receiver.
3. **AUDIO**
   Connects to the TV or VCR using an RCA cable.
4. **VIDEO**
   Connects to the TV or VCR using an RCA cable.
5. **TV SCART**
   Connects to the TV using a TV SCART cable.
6. **VCR SCART**
   Connects to the VCR or DVD using a VCR SCART cable.
7. **SPDIF**
   Connects to the audio system using an S/PDIF cable. (digital audio)
8. **HDMI**
   Connects to the TV using an HDMI cable.
9. **USB Port**
   Connect a USB Pen drive or external USB HDD (for archiving recordings, or transfer of MP3 or JPEG files).
10. **ETHERNET**
    Ethernet port (for future use).
11. **ON/OFF**
    Powers on/off.

Note:
- The rear panel of the product is subject to change without notice.
- The LNB ratings of LNB 1 and LNB 2 are different.
  LNB 1 IN: Max. 13/18V 250mA, **LNB 2 IN:** Max. 13/18V 500mA

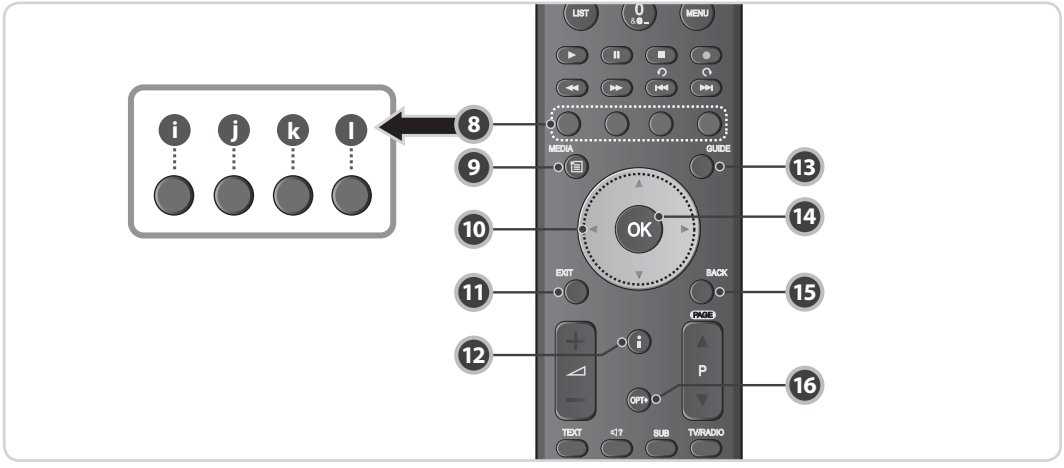
1.5 Remote Control

Note: The remote control of the product is subject to change without notice.



1. **MUTE**
   Mutes or unmutes the audio temporarily.
2. **PVR/TV/DVD/AUDIO**
   Changes the mode.
3. **LIST**
   Display the channel list.
4. **PLAYBACK CONTROL BUTTONS**
   a. **PLAY**
      Plays at normal speed or resumes.
   b. **PAUSE**
      Pauses the live programme or recording.
   c. **STOP**
      Stops a recording or goes to the live programme.
   d. **RECORD**
      Records programme.
   e. **FAST BACKWARD**
      Rewinds at high speed. Each time you press this button, the rewind speed is increased.
   f. **FAST FORWARD**
      Fast forwards at high speed. Each time you press this button, the fast forward speed is increased.
   g. **PREVIOUS (REPLAY)**
      Goes to the previous scene.
   h. **NEXT (SKIP)**
      Goes to the next scene.
5. **STANDBY**
   Switches between operation and standby modes.
6. **NUMERIC(0-9) BUTTONS**
   Enters a TV/radio channel number or menu option number.
7. **MENU**
   Displays the main menu.

1. Before Using the Product



8. COLOUR BUTTONS(R/G/Y/B)
Select the colour keys for interactive applications.

- **i. RED**
  Displays the channel list in normal viewing mode.
- **j. GREEN**
  Displays the favourite channel list in normal viewing mode.
- **k. YELLOW**
  Displays the HD TV channel list in normal viewing mode.
- **l. BLUE**
  Displays the genre channel list in normal viewing mode.

9. MEDIA
Displays the media list.

10. ARROW BUTTONS
Changes the channel or moves the cursor up, down, left or right.

11. EXIT
Exits all On-Screen Display (OSD) screens.

12. i (INFORMATION)
Displays the channel and programme information.

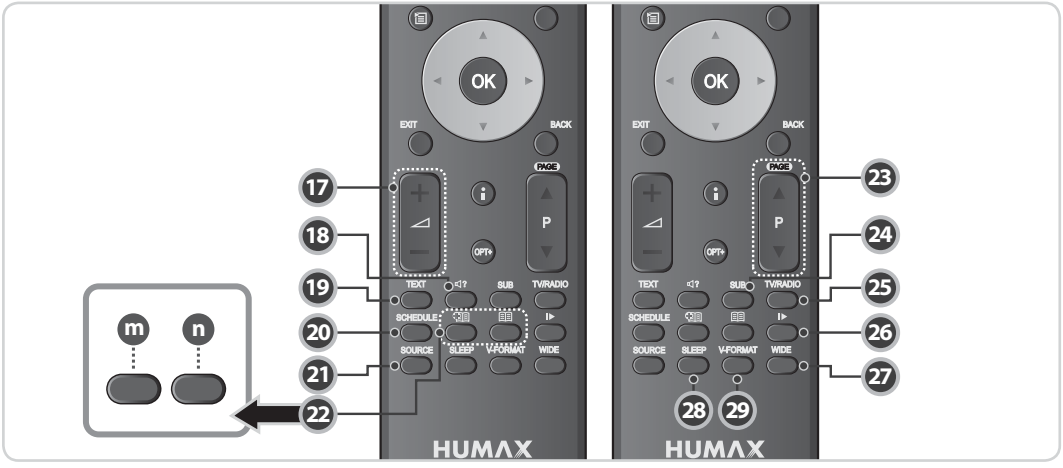
13. GUIDE
Displays the programme guide.

14. OK
Selects a menu or confirms the selected operation.

15. BACK
Returns to the previous channel.

16. OPT+
Displays the channels attributes while watching a programme.

1. Before Using the Product



17. VOLUME
Adjusts the audio volume.

18. AUDIO
Displays the audio list.

19. TEXT
Enters the digital text service.

20. SCHEDULE
Displays the schedule in programme guide.

21. SOURCE
Controls the output of TV SCART.

22. BOOKMARK

m. ADD BOOKMARK
Saves the current viewing position as a bookmark during playback.

n. BOOKMARK LIST
Displays the list of saved viewing positions during playback.

23. P+/P-
Changes the channel or page.

24. SUB
Displays the subtitle language list.

25. TV/RADIO
Switches between TV and radio modes.

26. SLOW
Plays the programme in slow motion.

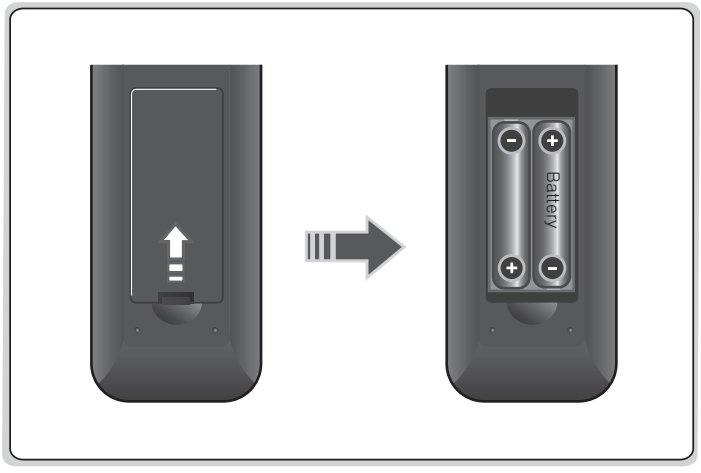
27. WIDE
Sets the display format.

28. SLEEP
Sets the sleep time.

29. V-FORMAT
Changes the resolution of video.

1.6 Remote Control Batteries

1. Press down the top of the battery cover and slide the cover off.
2. Insert the new batteries. Make sure the plus (+) ends meet the plus markings on the battery case.
3. Slide the cover back into place.



2. Connections

This chapter describes how to connect your product to the TV with the particular equipments for gaining optimum signal quality. The product provides various interfaces to connect to the TV, VCR or other devices. Select the most appropriate procedure depending on the equipment you have.

Note: If you encounter any problems setting up your product, please contact your local retailer or Humax Customer Helpline.

2.1 Connecting the Antenna

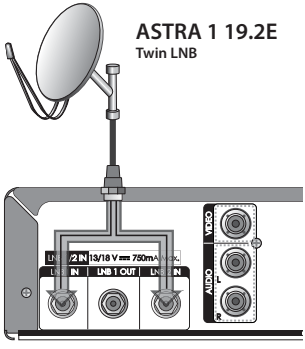
You can select one of the following antenna connections depending on the equipment you have. The product has two antenna modes according to setting.
Change this to the first option.

1. Connecting Two Satellite Cables

Connect the two cables from your satellite dish to the LNB 1 IN and LNB 2 IN connections on the rear of the product.

Note: To maximize the use of all PVR features FOXSAT-HDR provides, connecting with two cables from the same satellite dish is strongly recommended. This will allow you to:

- View and record different channels
- Record two channels at the same time



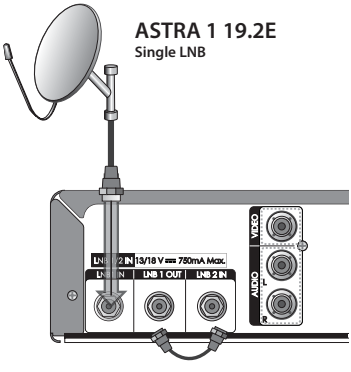
2. Single Cable Using Loop Through

1. Connect the cable from your satellite dish to LNB 1.
2. Connect a cable from the LNB 1 OUT to the LNB 2 IN connection.

Note:

- If connecting with a single cable using loop through, you will have limited functionality.
  While recording a channel you will be limited to the second channel you can view.
  Visit www.humaxdigital.com/freesat for further information.

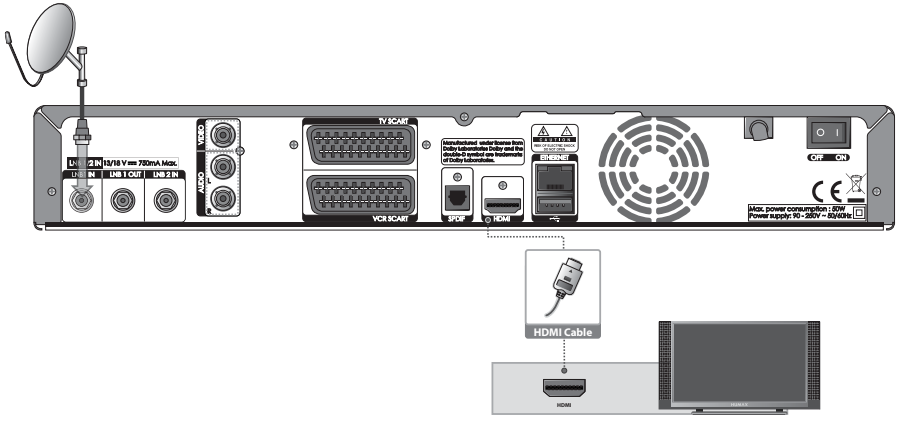
- When using a Motorised System, SCD Antenna (also known as Unicable), or SMATV please connect the cable to LNB 1.



2.2 Connecting the TV and VCR

1. Using HDMI Cable

The HDMI connection, a special all-digital interface that provides the highest picture quality, is suitable for Digital TV. If the TV has a HDMI input, connect the product & TV using a HDMI cable as follows.



Important:

- When connecting the product to a TV with a HDMI cable no other connection is required.
- If you connect using a HDMI cable please switch your TV set to the correct channel/input for HDMI (refer to your TVs manual for details).

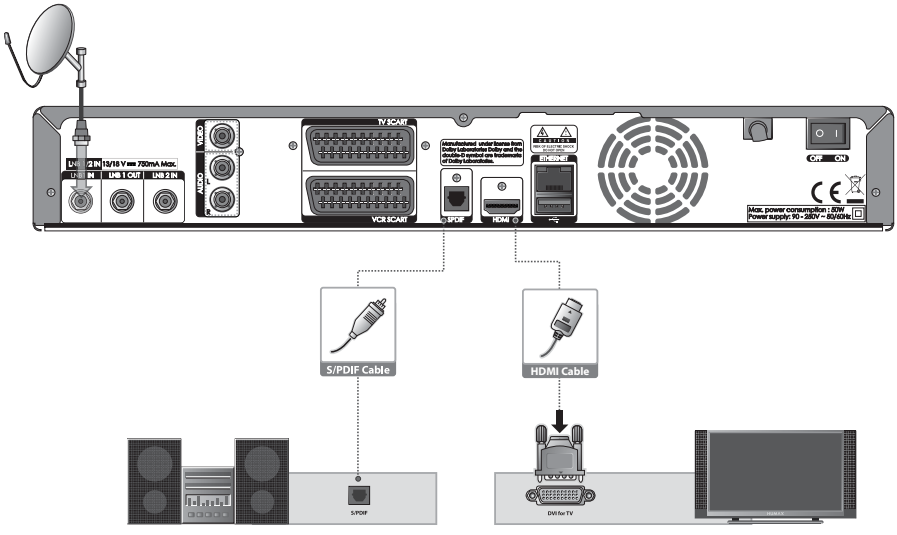
2. Connections

2. Using DVI Connector

The DVI connection using an HDMI to DVI converter is suitable for Digital TV. If the TV has the DVI input connector only, connect the product to the TV with an HDMI cable using an HDMI to DVI converter as follows.

When equipped with an A/V receiver,

1. Connect one end of the HDMI cable to the HDMI input on the product and the other end to the HDMI to DVI converter.
2. Connect the DVI converter to the TV.
3. Connect the product and the Dolby Digital decoder using an S/PDIF cable.



Important: If you connect using a DVI cable please switch your TV set to the correct channel/input for the HDMI (refer to your TVs manual for details).

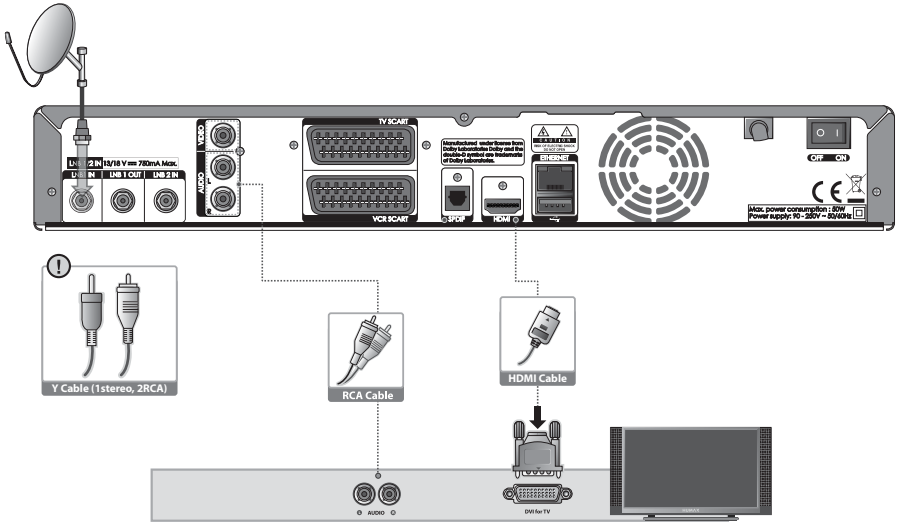
2. Connections

When there is no A/V receiver available,

1. Connect the product and the TV using an RCA cable.
2. Connect one end of the HDMI cable to the HDMI input on the product and the other end to the HDMI to DVI converter.
3. Connect the DVI converter to the TV.

Note: You can also connect the product to the TV using the ***3.5 Stereo Jack Cable to 2 RCA Y Cable***.

Caution: DO NOT CONNECT TO HEAD PHONE CONNECTOR ON TV!



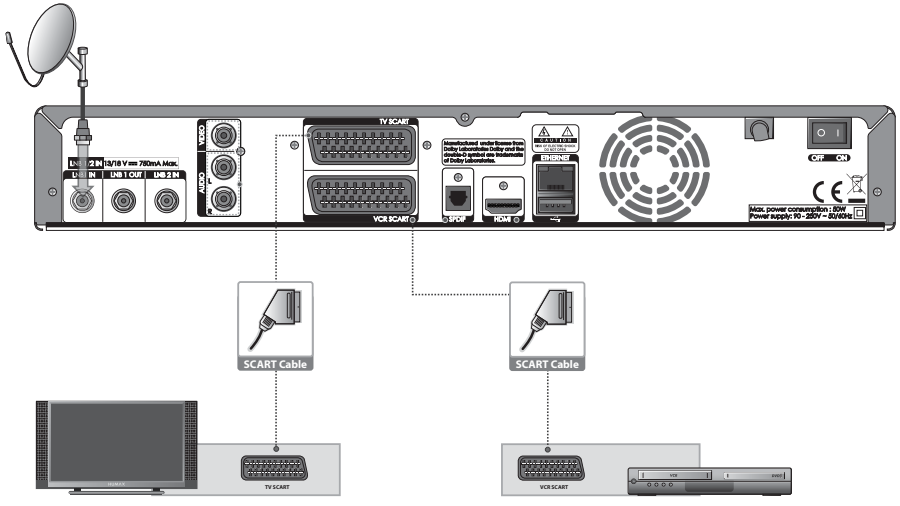
Important: If you connect using a DVI cable please switch your TV set to the correct channel/input for the DVI connection (refer to your TVs manual for details).

2. Connections

3. Using SCART Cable

A SCART cable connection is recommended for analogue TV or VCR.

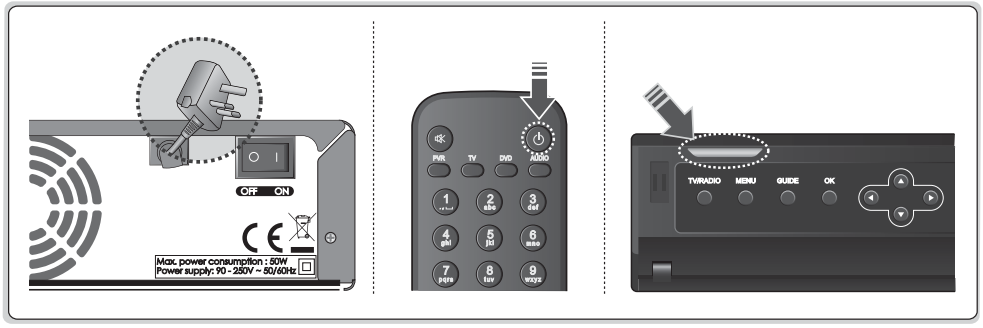
1. Connect the product and the TV using a SCART cable.
2. Connect the product and the VCR using a SCART cable.



Important: If you connect using a SCART cable please switch your TV set to the correct channel/input for the scart connection (refer to your TVs manual for details).

2.3 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Ensure the ON/OFF switch at the rear of the product is switched to ON.
3. Power on by pressing the **STANDBY** button on the remote control or the **STANDBY** button at the front of the product.



3. First Installation

When powering on your product for the first time after purchase, the First Time Installation will appear. If nothing appears on your TV set please check the following:

- Your TV set is switched ON.
- Please check that the cables between the TV and product are connected correctly.
- Your TV set is switched to the correct channel/input for the connection method/cable you are using.

Tip:
- The default password is **0000**.
- If you have forgotten your password, please contact Humax Customer Support.

3.1 User Settings

User Settings allows you to set the language, screen ratio, display format and resolution.

Select the value for ***Preferred Language, Screen Ratio, Display Format*** and ***Resolution***.

Select ***Next*** and press the **OK** button.

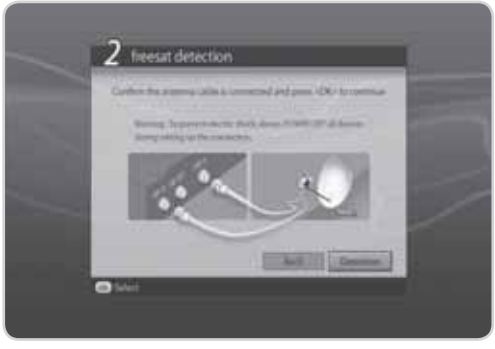
Note: Not all resolutions may work (or be available) with the type of connection (or TV Set) your are using. If you experience problems please select a different resolution.

3.2 freesat detection

1. Confirm the satellite cable(s) are connected and press the **OK** button.
2. Please wait until the freesat detection is complete.
3. When the freesat signal is detected, press the **OK** button to go to the next step.

Note:
- If the freesat detection fails please check that the satellite cable(s) are connected correctly.
- For further help see the ***14. Trouble Shooting*** section of the manual.

Warning: To prevent electric shock, always POWER OFF all devices during setting up the connection.



3.3 Postcode

Enter your full postcode (including a space) using the **NUMERIC(0-9)** buttons on the remote control.
To use on-screen keyboard, press the **OPT+** button.
Press the **1** button to enter a space.
Press **OK** after entering your postcode.

Note: Use the left arrow on the remote to delete an incorrect entry.

If the ***Invalid Postcode*** message appears please re-enter your postcode.
If your postcode is correct then see the ***14. Trouble Shooting*** section.

3.4 Search Channels

Search Channels will activate and the results will appear.

To stop the channel search, select ***Stop*** and press the **OK** button. Select ***Save*** and press the **OK** button to go to the next step.

3. First Installation

3.5 Result

After all setting is complete, you can view the result screen.

Select ***Finish*** and press the **OK** button to complete the first installation.

3.6 Installation Checklist

Before using the product, please make sure that you have completed the following steps.

Step	Page	Done?
Is the antenna connected correctly?	GB15	
Is the product connected to your TV?	GB16	
Is the power cord plugged in the wall outlet?	GB20	
Is the product in operation mode (not Standby mode)?	GB20	
Have you performed channel search in the first installation?	GB21	

Note: If you exit the first installation without fully completing the channel searching procedure, you may not have all of the channels available. Please select the **Freesat Tune** option in the **Setup** menu to search for the channels again.
For information on the latest channels from freesat visit **www.freesat.co.uk**.

4. Basic Operation

This chapter describes the basic functions the product provides such as switching channel, volume control and other common features.

4.1 Switching Channel

You can change channels by:
- Pressing the **P-/P+** buttons
- Entering the channel number using the **NUMERIC(0-9)** buttons.
  Press the **TV/RADIO** button to switch between TV and radio channels.

Note: You can also change channels using the Channel list **(LIST)** or Programme Guide **(GUIDE)**.

4.2 Volume Control

You can adjust the audio volume. Press the **V-/V+** button to adjust the audio volume. Press the **MUTE** button to stop the audio temporarily.

Note: The mute function remains set while you switch channels.

4.3 Resolution

You can set the resolution of the screen. Press the **V-FORMAT** button while watching a programme. The current resolution will be displayed.
Each time you press the **V-FORMAT** button, the resolution changes in the following sequence:
576i→576p→720p→1080i→Original.

Note: Not all resolutions may work (or be available) with the type of connection (or TV Set) your are using. If you experience problems please select a different resolution.

4.4 Wide

You can set the display format.

Press the **WIDE** button while watching a programme to change the display format.
Each time you press the **WIDE** button, the display format changes.

Note: For more information about display format, refer to ***7.1.7 Display Format***.

4.5 Audio

If multiple audio languages/options are available the you can select the one you require from the audio list.

1. Press the **AUDIO** button.
2. Use the arrows to select the audio option you require.
3. Select the audio direction (left, right, stereo) using the ◄/► buttons.
4. Press **EXIT** to close.

Note:
- You can also change between the audio options by pressing the **AUDIO** button multiple times.
- For Dolby Digital broadcasts it is not possible to change the direction.

4.6 Subtitle

If multiple subtitle languages/options are available you can select the one you require from the subtitle list.

1. Press the **SUB** button.
2. Use the arrows to select the subtitles you require and press **OK**.

Note:
- You can also change between the subtitle options be pressing the **SUB** button multiple times.
- If no subtitles are available a message will inform you on screen; not all programmes broadcast will contain subtitle information.

4.7 Text and Interactive Services

If your chosen channel has digital teletext features, you can access them. Teletext services often load automatically shortly after the digital teletext window is displayed. In which case, simply follow the on screen instructions(press color buttons).

1. Press the **TEXT** button to access digital teletext.
2. Press the **TEXT** button again to return to normal viewing.
3. Press the **P+/P-** button to exit this service.

Note:
- Interactive service (MHEG) is not available when subtitles are displayed. The channel and volume cannot be controlled using the arrow buttons in interactive mode.
- For information regarding the Digital Text or interactive services available please contact the broadcaster. Not all channels on freesat will provide these services.

4.8 Programme Information (i-plate)

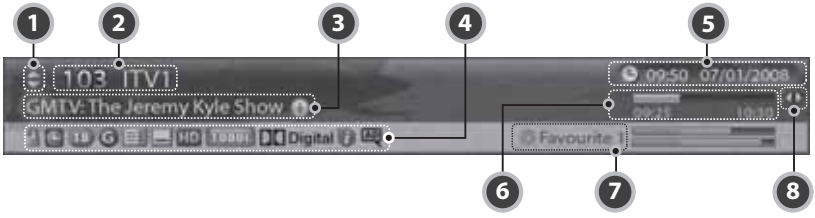
The i-plate is always displayed for a certain period of time whenever you switch channels. You can view the programme information by pressing the **i** button while watching a programme. Press the **EXIT** button to hide the i-plate.

After switching to a channel, press the ◄/► button to display navigation mode.
Press the ◄/► button to view the previous/next programme information.
Press the ▲/▼ button to view the programme information of other channels.

1. General Information

The general information is displayed on the screen as the following.

Note: If programme information is not available on all channels please access the **GUIDE** to allow the information to download fully.



1. Next/previous channel
2. Channel number and name
3. Programme name
4. Icons

	Displayed only when the channel is a locked channel.
	Displayed only if the programme is reserved for watching.
18	Represents parental level. Indicates the minimum level of age for viewing the programme.
	Displayed only when there is any teletext information.
	Displayed only when subtitle information is available.
HD	Displayed only when the channel provides HD programmes.
1080i	Displays the resolution of the current programme.
Digital	Displayed only when the programme is broadcast in Dolby Digital.
AD	Displayed only when audio description is available.
i	Displayed only when the interactive service is available.
G	Displayed only when there is any guidance information.

5. Current time & date
6. Programme broadcasting time and progress bar: Displays programme playing time and progress bar.
7. Group name: Displays the group the channel belongs to.
8. Previous/Next programme information: Displayed if previous/next programme information is provided. Press the ◄/► button to display previous/next programme information.

Note: If there is no programme information available, programme information is not displayed.

2. Detailed Programme Information

You can see the detailed information about the current programme.

Press the **i** button when the i-plate is displayed to view detailed information. Press the **i** button once more to hide the i-plate.

Note: If the detailed programme information is over one page, use the ▲/▼ button to move to the previous or next page.

4.9 Option List

You can view and confirm detailed information about the current channel and change the information if necessary.

Tip:	The default password is **0000**.

1. Press the **OPT+** button.
2. To add the channel to the favourite group, select ***Favourite Group***. Select the group using the ▲/▼ button and press the **OK** button.
3. To lock the channel, select ***Lock*** and press the **OK** button.
4. To delete the channel, select ***Delete*** and press the **OK** button. A popup will appear. Select ***Yes*** and press the **OK** button.
5. To rename the channel in non-freesat channel mode, select ***Rename*** and press the **OK** button. Enter the name directly using the keyboard on the screen. Press the **YELLOW** button to complete.

Note: In non-freesat channel mode, you cannot add the channel to the favourite group.

5. Channel List

This chapter will help you use the various channel lists available. To display the channel list press the **LIST** button while viewing a programme.

Four types of channel lists are available for quick and easy navigation.

My TV (RED)	The list of all TV channels. The list of all radio channels. The list of the recently viewed channels.
Favourite (GREEN)	The list of the favourite channels in five groups.
HD TV (YELLOW)	The list of all HD TV channels.
Genre (BLUE)	The list of channels including the sports, drama, movie and other genres.

Note:
- Press the **EXIT** button to remove the channels list.
- The favourite channel list will only be available after favourites groups have been setup.
- To sort the channels numerically or alphabetically press **i** button while the channel list is on screen.

5.1 My TV List

My TV List is the list of all channels available including TV, radio and recent channels.

1. Press the **LIST** button while watching a programme to display the channel list.
2. Press the **RED** button to display **My TV** if not already selected.
3. Select the channel you wish to view and press the **OK** button. You can also enter the channel number using the **NUMERIC(0-9)** buttons.
4. Press the **RED** button again and select a sub group using the ◄/► button.
5. Select a channel and press the **OPT+** button.
   To add the channel to the favourite group, select ***Favourite Group***. Select the group using the ◄/► button and press the **OK** button.
   To lock the channel, select ***Lock*** and press the **OK** button.
   To delete the channel, select ***Delete*** and press the **OK** button. A popup will appear. Select ***Yes*** and press the **OK** button.

Note: You can switch between TV and radio by simply pressing the **TV/RADIO** button.

5. Channel List

5.2 Favourite List

Favourite List is the list of the favourite channels you can select yourself from the entire channel list. There are five favourite groups in total.

1. Press the **LIST** button while watching a programme.
2. Press the **GREEN** button to display the list of favourite groups.
3. Press the **GREEN** button again and select a sub group using the ◄/► button.

5.3 HD TV List

HD TV List is the list of all HD TV channels.

1. Press the **LIST** button while watching a programme.
2. Press the **YELLOW** button to display the HD TV list.

5. Channel List

5.4 Genre List

Genre List allows you to view the channels by genre (e.g. Movies, Sports, Entertainment, etc).

1. Press the **LIST** button while watching a programme.
2. Press the **BLUE** button to display the genre list.
3. Press the **BLUE** button again and select a sub group using the ◄/► button.

5.5 Non-freesat Channel List

Four types of channel lists are provided for quick and easy channel search in the non-freesat channel list.

My TV (RED)	The list of all TV channels. The list of all radio channels. The list of HD TV channels. The list of the recently viewed channels.
Favourite (GREEN)	The list of the most viewed channels.
Satellite (YELLOW)	The lists of channels classified by satellites.
Scramble (BLUE)	The lists of channels classified by CAS types.

6. TV Guide

The ***TV GUIDE*** displays the programmes for the next 7 days sent by the broadcaster.

Note: Press the **GUIDE** or **EXIT** button to exit the TV guide screen.

6.1 Using TV Guide

You can view the programme information of all channels in time and date order.

1. Press the **GUIDE** button.
2. Select the channel genre using the ▲/▼ button and press the **OK** button.
3. Press the **RED** button.

1. Table Guide

1. Move to the previous/next programme within the same channel using the ◄/► button.
2. Move to another channel using the ▲/▼ button. If the contents are more than one page, use the **P-/P+** button to skip to the next page. Enter the number of the channel you wish to move using the **NUMERIC(0-9)** buttons.
3. Jump back/ahead two hours using the **FAST BACKWARD/FAST FORWARD** button.
4. Move to the previous/next day using the **PREVIOUS/NEXT** button.
5. If the programme is currently on press the **OK** button to view the programme.
6. If the programme is on in the future you can reserve it to view or record. Press the **OK** button on the highlighted programme and select from the following:

Record Whole Series	This option will appear if the programme is in a series; select this option to record this programme and all future programmes within the same series.
Record One Programme	Select this option to record this programme only.
Watch	Select this option is you wish to view this programme (Not record).

7. Select a reserved programme and press the **OK** button to cancel the reservation.
8. Press the **OPT+** button to display the channel genre and choose another genre.

2. Instant Reservation

1. Select a programme in the EPG and press the **RECORD** button on the remote. The selected programme only will be reserved to record.
2. To cancel the reservation, select the programme and press the **STOP** button. The reservation will be cancelled immediately.

Note:

- You cannot reserve new programmes when the HDD is already full. Please delete another recorded programme.
- Press the **i** button to view the programme information.
- In non-freesat mode, you cannot select the channel genre. Select the group using the **OPT+** button.
- You cannot reserve the programmes in non-freesat mode.

6.2 List Guide

1. Press the **GREEN** button.
2. You can view the programme information for the next 7 days. The features are similar as in ***6.1 Table Guide***.

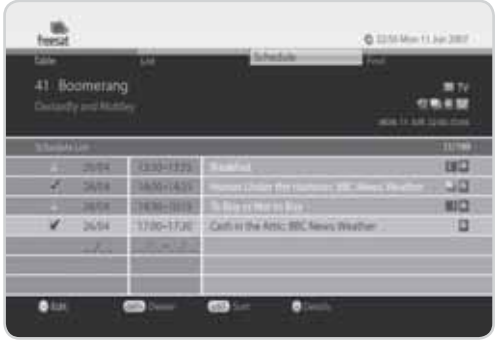
Note: Press the **OPT+** button to go to channel genre.

6.3 Schedule

Schedule displays the list of the programmes you have reserved. You can modify, delete or make manual reservations.

1. Press the **YELLOW** button to display the schedule of reservations.
2. Select a reservation and press the **OPT+** button to delete the reservation.

Note:
- Press the **LIST** button to sort the list in time or alphabetical order.
- You cannot reserve programmes in non-freesat mode.



1. Editing Reservations

1. Select a reservation you want to edit and press the **YELLOW** button. The reservation popup will appear.
2. Select ***Channel*** and press the **OK** button to display the channel list. Select the channel.
3. Select ***Date*** and press the **OK** button to view the calendar. Select the date.
4. Select ***Start Time*** or ***End Time*** and enter the time using the **NUMERIC(0-9)** buttons.
5. Select ***Repeat*** and change the repeat frequency using the ◄/► button.
6. Select ***Mode*** and select **Record** or **Watch**.
7. Select ***OK*** and press the **OK** button.

2. New Reservation

1. Select the blank reservation at the bottom of the schedule list and press the **OK** button.
2. The reservation popup will appear. Enter the channel number, date, start/end time, repeat frequency and mode and then press the **OK** button.

Note:
- Reservations for deleted channels or past programmes are automatically deleted.
- If the channel number has changed the reservation will need to be setup again.

6.4 Find

Find allows you to search for programmes by entering a keyword (part or all of the programme name) and selecting the genre, time and day of the programme.

1. Press the **BLUE** button.
2. Enter the keyword, genre, time & day of the programme and select ***Search*** and then press the **OK** button.
3. The search result of the entered values will appear.
4. To reserve a programme, select a future programme and press the **OK** button.

1. Search by Keyword

1. Press the **OK** button while the cursor is on ***Keyword***.
2. ***Keyword List*** will appear. Select ***<NEW>*** and press the **OK** button to enter a new keyword.
3. A keyboard will appear. Enter the keyword.
4. Press the **YELLOW** button to complete.

2. Search by Genre

1. Press the **OK** button while the cursor is on ***Genre***.
2. The list of genres will appear. Select the genres and press the **OK** button. You can select up to two genres.

3. Search by Time and Day

1. Press the **OK** button while the cursor is on ***Time & Day***.
2. The time & day popup will appear. Select the time and day using the **OK** or ◄/► button.
3. Select ***OK*** and press the **OK** button.

7. Settings

In this chapter you can set options for TV Setup, Language, Time, Parental Control, Recording and Other.

Note: Pressing the **EXIT** button will save any changes you have made automatically and return you to the previous menu. Press the **MENU** button to exit all the menus.

7.1 TV Setup

You can configure the audio and video output settings.

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***TV Setup*** using the ▲/▼ button and press the **OK** button.

1. TV SCART

You can select the TV SCART output option.

1. Select ***TV SCART*** and press the **OK** button.
2. Select ***RGB***, ***CVBS***, or ***S-Video*** and press the **OK** button.

2. VCR SCART

You can select the VCR SCART output option.

1. Select ***VCR SCART***.
2. Select ***CVBS*** or ***S-Video*** using the **OK** or ◄/► button.

3. Audio

You can select the audio output option.

1. Select ***Audio***.
2. Select ***Stereo*** or ***Mono*** using the **OK** or ◄/► button.

4. Dolby Digital

You can set Dolby Digital soundtrack option. If you select ***On***, the Dolby Digital audio will be selected automatically (when broadcast) and outputted via S/PDIF.

1. Select ***Dolby Digital***.
2. Select ***On*** or ***Off*** using the **OK** or ◄/► button.

5. Lip-Sync

You can adjust the sound difference of audio and video.

1. Select ***Lip-Sync*** and press the **OK** or ► button.
2. Adjust the sync using the ◄/► button.
3. Press the **BACK** button to complete.

Note: Lip-Sync will be applied to all channels when this option is adjusted.

6. Screen Ratio

You can select the screen ratio option.

1. Select ***Screen Ratio*** and press the **OK** button.
2. Select ***16:9 – Widescreen TV*** or ***4:3 – Traditional TV*** using the **OK** or ◄/► button.

7. Display Format

You can select the display format according to the screen ratio.

1. Select ***Display Format*** and press the **OK** button.
2. When choosing ***16:9 – Widescreen TV*** as screen ratio, select among ***Auto***, ***4:3 Pillar Box***, ***14:9 Pillar Box***, ***16:9 Centre Cut Out***, ***Anamorpic*** and press the **OK** button.
3. When choosing ***4:3 – Traditional TV*** as screen ratio, select among ***16:9 Letterbox***, ***14:9 Letterbox***, ***Centre Cut Out***, ***Auto*** and press the **OK** button.

8. HDCP Default

You can enable or disable HD copy protection for programmes with no copy protection sent by the broadcaster.

1. Select ***HDCP Default*** and press the **OK** button.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

7.2 Language

Language enables you to set the basic language and subtitle options.

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***Language*** using the ▲/▼ button and press the **OK** button.

1. Preferred Language

Preferred Language allows you to choose from the languages available.

1. Select ***Preferred Language*** and press the **OK** button.
2. Select the language you want and press the **OK** button.

2. Subtitle Display

Subtitle Display allows you to enable the subtitles to appear automatically if they are provided by the broadcaster.

1. Select ***Subtitle Display***.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

3. Subtitle Font

Subtitle Font enables you to select the font of the subtitle.

1. Select ***Subtitle Font***.
2. Select ***Variable*** or ***Fixed*** using the **OK** or ◄/► button.

Variable	Uses the horizontally variable subtitle font of the on-screen display.
Fixed	Uses the fixed subtitle font as in TEXT.

4. Audio Description

Audio description allows the user to select the narration of onscreen visuals, which is used for visually impaired viewers. Setting the ***Audio Description*** option to ***Enable*** will automatically select the ***Audio Description*** option when you change to a channel.

1. Select ***Audio Description***.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

Note: Not all channels/programmes will provide Audio Description; for further information please contact the broadcaster.

7.3 Time

Time allows you to set the time you want the product to turn ON (Wakeup) or OFF (Sleep) each day.

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***Time*** using the ▲/▼ button and press the **OK** button.

1. Power ON

You can set the time the product turns on automatically.

1. Select ***Power ON*** and press the ► button.
2. Enter the powering on time using the **NUMERIC(0-9)** buttons or select ***Disable*** using the ◄/► button.

2. Power On Channel

You can select a channel you want the product to turn ON to each day.

1. Select ***Power On Channel*** and press the **OK** button to display the channel list.
2. Select the channel and press the **OK** button.

3. Power OFF

You can select the time the product turns off automatically.

1. Select ***Power OFF*** and press the ► button.
2. Enter the powering off time using the **NUMERIC(0-9)** buttons or select ***Disable*** using the ◄/► button.

7.4 Parental Control

Parental Control allows you to set password control for live or recorded content, change the password, and lock the setup menu.

Tip:	The default password is **0000**.

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***Parental Control*** using the ▲/▼ button and press the **OK** button.
4. You will be prompted to enter your password. Enter the password using the **NUMERIC(0-9)** buttons.

1. Guidance Policy

Enabling the ***Guidance Policy*** option will mean any programmes (or recordings) that have guidance information will require the password to be entered to view them. The guidance information is sent by the broadcasters for some programmes.

1. Select ***Guidance Policy*** and press the **OK** button.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

Note: Guidance information is only available in freesat mode.

2. Age Limit

Age Limit enables you to place certain restrictions on the viewers by setting age limits. A password must be entered to view the content.

1. Select ***Age Limit*** and press the **OK** button.
2. Select the age limit you wish to set.

Note: Age Limit is only available in non-freesat mode and will require the age classification information to be sent by the broadcasters.

3. Change Password

Change Password allows you to change the current password.

1. Select ***Change Password*** and press the **OK** button.
2. Enter the password in ***New Password*** using the **NUMERIC(0-9)** buttons.
3. Enter the password again in ***Verify Password*** to confirm.

4. Installation Lock

Installation Lock allows you to block access to the setup menu; the password will be required to enter the menu when this option is enabled.

1. Select ***Installation Lock***.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

7.5 Recording

Recording allows you to set the recordings auto-padding, and the settings for the instant replay and skip forward buttons.

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***Recording*** using the ▲/▼ button and press the **OK** button.

Note:

- On Time - the broadcasters signal will be used for accurate recording when broadcast.
- 1,2,3,5 Mins - The minutes you select to the start and/or end times will be included where possible to the recordings.

1. Recording Start Time

You can set the amount of time you want the recordings to start before the schedule billed time in the EPG.

1. Select ***Recording Start Time*** and press the **OK** button.
2. Select the padding time using the **OK** or ◄/► button

2. Recording End Time

You can set the amount of time you want to add to the end of a recordings billed time in the EPG.

1. Select ***Recording End Time*** and press the **OK** button.
2. Select the padding time using the **OK** or ◄/► button

3. Instant Replay

You can set the length of time the video is replayed when pressing the **REPLAY** button.

1. Select ***Instant Replay*** and press the **OK** button.
2. Select the time using the **OK** or ◄/► button

4. Skip Forward

You can set the length of time the video is skipped when pressing the **SKIP** button.

1. Select ***Skip Forward*** and press the **OK** button.
2. Select the time using the **OK** or ◄/► button

7.6 Other

You can configure other settings such as info display time, OSD transparency, power saving in standby and automatic standby.

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***Other*** using the ▲/▼ button and press the **OK** button.

1. Info Display Time

You can set the time the information box is displayed on screen when changing channels.

1. Select ***Info Display Time*** and press the **OK** button.
2. Select a value between ***Disable, 1~20*** seconds and press the **OK** button.

Note: When set to ***Disable***, the i-plate will not be displayed when you switch the channel.

2. OSD Transparency

You can set the transparency of the On-Screen Display.

1. Select ***OSD Transparency*** and press the **OK** button.
2. Select among ***Disable, 25%, 50%*** and ***75%*** and press the **OK** button.

Disable	Fully opaque screen
25%, 50%, 75%	The higher the % the more transparent the On-Screen Display.

3. Power Saving in Standby

You can select whether the product switches to power saving mode in standby.

1. Select ***Power Saving in Standby***.
2. Select ***On*** or ***Off*** using the **OK** or ◄/► button.

Note:
When set the following will be disabled:
- Front display panel will not show the time
- LNB loop-through
- SCART loop-through

When ***Power Saving in Standby*** is enabled any schedule recordings you have set will record as the product will switch on to record the programme and go back to standby when completed.

4. Automatic Standby

When ***Automatic Standby*** is set to ***Enable*** the product automatically switches to standby mode after a period of inactivity to help reduce the amount of electricity used.

1. Select ***Automatic Standby***.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

5. Guide Channel Genre

You can choose to display the Genre List when accessing the Guide.

1. Select ***Guide Channel Genre*** and press the **OK** button.
2. Select ***Enable*** or ***Disable*** using the **OK** or ◄/► button.

7.7 STB Mode

1. Press the **MENU** button.
2. Select ***Settings*** using the ▲/▼ button and press the **OK** button.
3. Select ***STB Mode*** using the ▲/▼ button and press the **OK** or ► button to select ***freesat*** or ***Non-freesat***.

Note: ***STB Mode*** will only appear when non-freesat channels have been tuned and saved using the ***Manual Tune*** option in the setup menu.

8. Edit Channels

This chapter provides information on the channel editing options available for the main channel lists and the favourites lists you create.

Note:
- Press the **EXIT** button to save the changes and return to the previous menu. Press the **MENU** button to exit the menu screen.
- Press the **TV/RADIO** button to change between the TV and radio channel lists.

8.1 Edit Channel List

Edit Channels List enables you to delete, select and lock/unlock the channels in the edit channel list conveniently.

1. Press the **MENU** button.
2. Select ***Edit Channels*** using the ▲/▼ button and press the **OK** button.
3. Select ***Edit Channel List*** using the▲/▼ button and press the **OK** button.

Note: It is not possible to move or rename channels in freesat mode. When in non-freesat mode you can rename and move the channels.

1. Deleting Channels

1. Select the channels you want to delete and press the **OK** button. You can select more than one channel.
2. Press the **RED** button to delete the chosen channels.

8. Edit Channels

2. Locking/Unlocking Channels

Tip:	The default password is **0000**.

1. Select the channel you want to lock and press the **OK** button.
2. Press the **GREEN** button.
3. Select ***Lock*** and press the **OK** button.

Note:

- When channels are locked, the ***Lock*** option will change to ***Unlock***. Following the same procedure on these channels will unlock them.
- To watch locked channels, you must enter the password using the **NUMERIC(0-9)** buttons.

3. Selecting a Channel Group

1. Press the **YELLOW** button to display the list of groups.
2. Select the group you want and press the **OK** button.

4. Select All/Release All

1. Press the **BLUE** button.
2. Select ***Select All*** and press the **OK** button.
3. To release one or more channels from select all, press the **OK** button while the cursor is on the selected channel.

8.2 Edit Favourite List

You can add or remove channels from the favourite groups, move favourite channels and rename favourite groups.

1. Press the **MENU** button.
2. Select ***Edit Channels*** using the ▲/▼ button and press the **OK** button.
3. Select ***Edit Favourit List*** using the ▲/▼ button and press the **OK** button.

Note: ***Edit Favourite List*** is only available for freesat channels.

1. Adding/Removing Channels

1. Select the channels you want to add to the favourite channel list and press the **OK** button.
2. Press the **RED** button to add the channels to the favourite list you have chosen.
3. To remove channels from the favourite list, select the channels from the list and press the **RED** button.

Note: When the cursor is on the left column, the red button is used to ***Add*** channels. When the cursor is on the right column, the red button is used to ***Remove*** channels.

2. Selecting Favourite Groups

1. Press the **GREEN** button to display the list of groups.
2. Select the favourite group you want and press the **OK** button.

3. Select All/Release All

1. Press the **YELLOW** button to select all channels in the favourite list.
2. To release all channels, press the **YELLOW** button again.

4. Renaming Favourite Groups

1. Select the favourite group you want to rename and press the **OK** button.
2. Press the **BLUE** button.
3. Select ***Rename Group*** and press the **OK** button.
4. A keyboard will appear. Enter the name of the favourite group using the keyboard.
5. Press the **YELLOW** button to complete.

Note: The **YELLOW** and **BLUE** buttons become activated only when the cursor is placed on the right column.

5. Moving Favourite Channels

1. Select the favourite channel you want to move in the favourite list and press the **OK** button.
2. Press the **BLUE** button.
3. Select ***Move*** and press the **OK** button.
4. Move the cursor to the position required using the ▲/▼ button, and press the **OK** button.
5. The selected channel is moved to the new location.

8.3 Edit Customisable Channels

You can customise the regional channels broadcast by freesat, allowing you to select different regions from those detected by your postcode.

1. Press the **MENU** button.
2. Select ***Edit Channels*** using the ▲/▼ buttons and press the **OK** button.
3. Select ***Edit Customisable Channels*** using the ▲/▼ buttons and press the **OK** button.

Note: This feature may not be available for all regional channels.

1. Customising Channels

1. Select a channel from the left column.
2. Move the cursor to the right column and select an alternative channel of the region you want and press the **OK** button.
3. The selected channel will be customised as the default channel of the chosen channel number.

9. Setup

In this chapter you can configure Installation settings and search for channels.
Freesat Tune, Manual Tune, Software Update and Factory Reset are included in this section.

Note: Press the **EXIT** button to save the changes and return to the previous menu. Press the **MENU** button to exit the menu screen.

9.1 Freesat Tune

1. Press the **MENU** button.
2. Select ***Setup*** using the ▲/▼ button and press the **OK** button.
3. Select ***Freesat Tune*** using the ▲/▼ button and press the **OK** button.
4. Enter your postcode. Use the ◄ arrow to delete the current postcode.
5. Please note that once you perform ***Freesat Tune***, all freesat channels will be deleted. Select ***Yes*** and press the **OK** button to delete all freesat channels.
6. Select ***Search*** and press the **OK** button to search channels.
7. The channel search will start.
8. To stop the search, press the **OK** button during channel search.
9. The results will appear. Select ***Save*** and press the **OK** button.

Note: Any schedules setup for recording will be removed if the ***Freesat Tune*** is carried out. If no channels are available a popup message will be displayed.

9.2 Manual Tune

1. Press the **MENU** button.
2. Select ***Setup*** using the ▲/▼ button and press the **OK** button.
3. Select ***Manual Tune*** using the ▲/▼ button and press the **OK** button.
4. Select ***Search*** and press the **OK** button. The channel search will start.
5. To stop the search, press the **OK** button during channel search.
6. The results will appear. Select ***Save*** and press the **OK** button.

Transponder	Select ***All*** to search for all transponders in the list. Press **OK** to display the list of transponder, select the transponder you require and press the **OK** button to search for it only. If the transponder you require is not listed, select ***User Defined*** and enter the transponder details you require.
Network Search	Select ***Disable*** or ***Enable*** using the **OK** or ◄/► button.
Scrambled Type	Select ***All*** or ***FTA*** and press the **OK** button.
Channel Type	Select among ***All, TV*** and ***Radio*** and press the **OK** button.

Note: Searching for channels using ***Manual Tune*** will active the STB mode option in the ***Settings*** menu. The channels detected and displayed in non-freesat mode will only display the Now and Next programmes in the **TV Guide**. If there are no channels available, a message indicating the result will pop up.

9.3 Software Update

Software Update allows you to update the system software to maintain proper performance of the product.

1. Press the **MENU** button.
2. Select ***Setup*** using the ▲/▼ button and press the **OK** button.
3. Select ***Software Update*** using the ▲/▼ button and press the **OK** button.

Note: For more information about the software update, refer to ***11. Software Update***.

1. Automatic Update

1. Select ***Automatic Update*** and press the **OK** button.
2. When new software is detected, you can choose to download the software immediately or save for later.
3. When there is no new software to update, a popup will appear.

2. Manual Update

1. Select ***Manual Update*** and press the **OK** button.
2. Enter the values for ***Satellite, Frequency, Polarization, Symbol Rate*** and ***FEC***.
3. Select ***Search*** and press the **OK** button.
4. When new software is detected, you can choose to download the software immediately or save for later.

Note:

- When there is no new software to update, a popup will appear.
- Software updates for products will be detected using the ***Automatic Update*** option. For details to use different transponder details in the future (where applicable) please visit www.humaxdigital.com/freesat.

9.4 Factory Reset

Factory Reset enables you to restore the product to the factory default.

Warning: Please note that once you perform ***Factory Reset***, all data such as the antenna setting information, channel list and all user configured data will be deleted.

1. Press the **MENU** button.
2. Select ***Setup*** using the ▲/▼ button and press the **OK** button.
3. Select ***Factory Reset*** using the ▲/▼button and press the **OK** button.
4. Select ***Yes*** and press the **OK** button to restore all setting to factory default. To return to the previous menu, select ***No*** and press the **OK**.
5. Enter your password to proceed with the ***Factory Reset***.
6. When the factory reset is completed the product will restart and the First Time Installation will appear on screen.

Factory Reset
All setting values will be returned to the initial values.
Do you want to reset all setting values?
Password

Tip: The default password is **0000**.

Note: For detailed information about the first installation, refer to ***Chapter 3. First Installation***.

10. System

10.1 Diagnostics

You can view system status information.

1. Press the **MENU** button.
2. Select ***System*** and press the **OK** button.
3. Select ***Diagnostics*** and press the **OK** button.
4. The system status information will be displayed.

10.2 Network

You can view the network information.

1. Press the **MENU** button.
2. Select ***System*** and press the **OK** button.
3. Select ***Network*** and press the **OK** button.
4. The network information will be displayed.
5. Select ***Configure Ethernet*** and press the **OK** button. Select ***Configure IP*** and press the **OK** or ◄/► button to select ***DHCP*** or ***Manual***. When selecting ***Manual***, you can enter the value for the network information. Select ***Apply*** and press the **OK** button to save the changes.

Note: For information on the ***Network*** options on the product please visit www.humaxdigital.com/freesat in the future.

10.3 HDD Control

You can format the hard disk drive.

1. Press the **MENU** button.
2. Select ***System*** using the ▲/▼ button and press the **OK** button.
3. Select ***HDD Control*** using the ▲/▼ button and press the **OK** button.

1. Format HDD

To format the hard disk drive, select ***Format HDD*** and press the **OK** button. Select the partition you want to format, select ***OK*** and press the **OK** button. Select ***Yes*** and press the **OK** button. Enter the password to complete.

10.4 Common Interface

You can view the CI-Module information.

1. Press the **MENU** button.
2. Select ***Common Interface*** and press the **OK** button.
3. The common interface information will be displayed.

11. Media List

The product supports 4 types of Media lists. Press the **MEDIA** button and then the coloured buttons on the remote control to access each list.

Video (RED)	TV programmes that have been recorded
Radio (GREEN)	Radio programmes that have been recorded
Music (YELLOW)	MP3 (Music) files you have transferred
Photo (BLUE)	Jpeg (Photos) files you have transferred

11.1 Video

When the Media List is on screen press the **RED** button to select ***Video*** if not already selected. A list of the TV programmes you have recorded will appear.

Note:

- Press the **LIST** button to sort the files in file name, time, channel number order.
- Pres the **i** button to display the programme information of the selected recording.
- The icon (▶) will be displayed when the file is being played.
- When a support USB device is connected via the front or rear USB ports press the **RED** button to change between the HDD and the USB device.

1. Video Setting

Press the **OPT+** button in video list. A popup will appear to display the setting option.

- **Sort:** Select the sorting order.
- **List Type:** Select between ***Simple*** or ***Normal*** list types.
- **File Manager:** Go to file manager.

11. Media List

2. Play Option

Select a recorded file you want to playback and press the **OK** button. A popup will appear to display the play option.

- **Play from the last played position:** Play the recorded file from the point it has been stopped.
- **Play from the start:** Play the recorded file from the beginning.
- **Delete a file:** Delete the file. Select ***Yes*** and press the **OK** button.
- **Rename:** Rename the file. Enter the name directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.
- Select a still image and press the ◄/► button to select the chapter you wish to view.

Note:
- You can also press the **PLAY** button to play the file from the last played position.
- A chapter is made automatically by dividing a file into eight smaller files and capturing a still image of each smaller file. Chapters are used in play option by pressing the **PREVIOUS** and **NEXT** buttons.

3. Making Playlist

You can playback the chosen files in the order you want.

1. Press the **OPT+** button. A popup will appear to display the setting option.
2. Select ***File Manager*** and press the **OK** button to display File Manager.
3. Press the **BLUE** button and select ***Make Playlist*** and press the **OK** button. A playlist will appear.
4. Select a file in the playlist and press the **OK** button to play the selected file.
5. Select a file in the playlist and press the **RED** button to delete the file from the playlist and renumber the list.
6. Select a file in the playlist and press the **GREEN** button to move the file. Move the file within the list using the ▲/▼ button. Press the **OK** button to complete.

Note: If all files of the playlist are deleted, the playlist disappears.

4. Editing Playlist

After making a playlist, you can view the playlist in video list.
Select the playlist and press the **OK** button.

- **Play:** Play the playlist.
- **Delete:** Delete the playlist.
- **Edit:** Edit the playlist.

5. File Manager

You can delete files or copy files to/from external devices.

1. Press the **OPT+** button. A popup will appear to display the setting option.
2. Select ***File Manager*** and press the **OK** button to display File Manager.

- **Delete:** Select the file to delete and press the **RED** button.
- **Copy:** Select the file to copy and press the **GREEN** button.
- **Edit Mode:** You can edit multiple files. Press the **YELLOW** button to go to edit mode. Press the **YELLOW** button again to go back to normal mode.
- **Function:** Press the **BLUE** button.

Select All	Press the **OK** button to select all or release all.
Make Folder	Enter the name of the folder directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.
Rename	Enter the name directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.
Lock/Unlock	Press the **OK** button to lock or unlock file.

Note: You can rename only one file at a time.

11. Media List

6. Connecting External Devices

1. Connect the device to the recorder. The detected device will appear.
2. Press the **OPT+** button and select ***File Manager***.
3. Press the **OPT+** button while the cursor is in the right column to switch the device. Select the device and press the **OK** button.

11.2 Radio

When the Media List is on screen press the **GREEN** button to select ***Radio*** if not already selected. A list of the radio programmes you have recorded will appear.

Note: The features available in the radio list are the same as the video list in section ***11.1 Video***.

11.3 Music

When the Media List is on screen press the **YELLOW** button to select ***Music*** if not already selected. A list of the MP3 (Music) files you have transferred will appear.

Note:

- Press the **LIST** button to sort the files in file name or time order.
- Press the **i** button while playing a music file to view the file information.

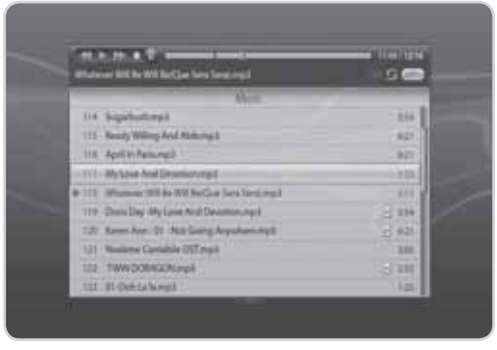
1. Music Setting

Press the **OPT+** button in music list. A popup will appear to display the setting option.

- **Sort:** Select the sorting order.
- **Repeat:** Select the repeat option.
- **Shuffle:** Enable or disable shuffle mode.
- **File Manager:** Go to file manager.

2. Music Player

1. Select the music file you want to play and press the **OK** or **PLAY** button to play.
2. Press the **STOP** button to stop playing.
3. Press the **PAUSE** button to pause.
4. Press the ◄/► button to go back or go forward.
5. Press the **OPT+** button to display Music Setting.
6. Press the **EXIT** button to stop and go to live radio.



11. Media List

3. File Manager

You can delete files or copy files to/from external devices.

1. Press the **OPT+** button. A popup will appear to display the setting option.
2. Select ***File Manager*** and press the **OK** button to display File Manager.

- **Delete:** Select the file to delete and press the **RED** button.
- **Copy:** Select the file to copy and press the **GREEN** button.
- **Edit Mode:** You can edit multiple files. Press the **YELLOW** button to go to edit mode. Press the **YELLOW** button again to go back to normal mode.
- **Function:** Press the **BLUE** button.

Select All	Press the **OK** button to select all or release all.
Make Folder	Enter the name of the folder directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.
Rename	Enter the name directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.

Note: You can rename only one file at a time.

4. Connecting External Devices

1. Connect the device to the recorder. The detected device will appear.
2. Press the **OPT+** button and select File Manager.
3. Press the **OPT+** button while the cursor is in the right column to switch the device. Select the device and press the **OK** button.

11.4 Photo

When the Media List is on screen press the **BLUE** button to select ***Photo*** if not already selected. A list of the Jpeg (Photos) files you have transferred will appear.

Note:
- Press the **LIST** button to sort the files in file name or time order.
- Press the **i** button in the photo list to view the file information.

1. Photo Setting

Press the **OPT+** button in photo list. A popup will appear to display the setting option.

- **Sort:** Select the sorting order.
- **Display Time:** Select the display time.
- **Aspect Ratio:** Select ***Auto*** or ***Original***.
- **Music:** Select the music option.
- **File Manager:** Go to file manager.

2. Photo Viewer

1. Press the **OK** or **PLAY** button to view the photos in slideshow.
2. Press the **OK** button to display the photo playbar.
3. Press the ◀/▶ button to view the previous/next photo.
4. Press the **PAUSE** button to stop the slideshow. Press the **PAUSE** button again or press the **PLAY** button to continue the slideshow.
5. Press the **PREVIOUS/NEXT** button to move back/forward five photos
6. Press the **OPT+** button to display Photo Setting.
7. When music player is playing, press the **FAST BACKWARD/FAST FORWARD** button to move to the previous/next music file.
8. Press the **EXIT** button to stop the music player.

11. Media List

3. File Manager

You can delete files or copy files to/from external devices.

1. Press the **OPT+** button. A popup will appear to display the setting option.
2. Select ***File Manager*** and press the **OK** button to display File Manager.

- **Delete:** Select the file to delete and press the **RED** button.
- **Copy:** Select the file to copy and press the **GREEN** button.
- **Edit Mode:** You can edit multiple files. Press the **YELLOW** button to go to edit mode. Press the **YELLOW** button again to go back to normal mode.
- **Function:** Press the **BLUE** button.

Select All	Press the **OK** button to select all or release all.
Make Folder	Enter the name of the folder directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.
Rename	Enter the name directly using the keyboard displayed on the screen. Press the **YELLOW** button to complete.

Note: You can rename only one file at a time.

4. Connecting External Devices

1. Connect the device to the recorder. The detected device will appear.
2. Press the **OPT+** button and select ***File Manager***.
3. Press the **OPT+** button while the cursor is in the right column to switch the device. Select the device and press the **OK** button.

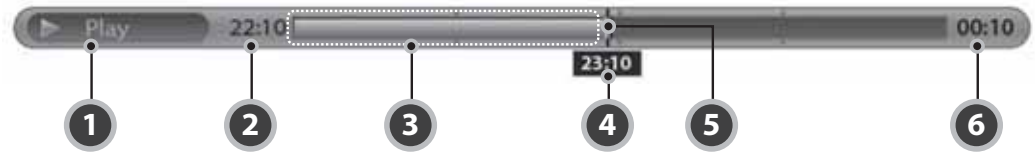
12. Personal Video Recorder (PVR)

The product automatically buffers the channel you are viewing to the Hard Drive (2 hour period), this enables you to pause live TV, rewind to the point you changed to the channel, and fast forward.

Note: The buffer will be cleared whenever you change channels.

12.1 Play bar

Press the **PLAY** button while watching a recording to display the play bar. Play bar displays the current operation status, the time gap between the broadcasting point and watching point and the amount of temporarily saved programme.



1. Play status
2. Start time
3. Amount of saved programme
4. Present time
5. Play pointer
6. Total time (present time in TSR)

To move to the specified time point directly, enter the time you want using the **NUMERIC(0-9)** buttons. To move the watching point bar to the time point you want, press the ◀/▶ button while playing back and then press the **OK** button to play the programme from the specified time point. If you do not press the **OK** button after moving the watching point, it will move automatically. Press the **STOP** button to stop the current file and go to live TV.

12.2 Time Shifted Recording (TSR) and Playback.

You can perform Time Shifted Recording (TSR) and other VCR functions within TSR using the playback control buttons while playing a programme.

1. Playback

You can view the recorded files in the ***Media List***→***Video***. Press the **MEDIA** button to access the recorded file list easily.

1. Press the **REPLAY** button to jump back and play from that point. Press the **STOP** button to return to live video.
2. Press the **SKIP** button to jump ahead and play from that point. Press the **STOP** button to return to live point.

Note:
- Enter the **NUMERIC(0-9)** buttons during playback and press the **OK** button to move to that specific time point.
- For more information about playback, refer to ***11.1.1 Play Option***.

2. TSR

You can perform fast backward, fast forward, slow motion and pause while playing back a recorded file from the media list.

Fast Forward

1. Press the **FAST FORWARD** button to fast forward the programme.
2. Each time you press the **FAST FORWARD** button, the speed increases (x2, x4, x16, x32, x64).
3. If you press the **PLAY** button, the fast forward operation stops and the programme is played at normal speed.

Note: The ***Fast Forward*** operation is only available during playback of a recording or when you are behind live TV (if you have paused live TV, used slow motion, or fast backward). You are only able to fast forward to the live TV point; when this is reached the programme will play at normal speed automatically.

Fast Backward

1. Press the **FAST BACKWARD** button to go back during a recording or the buffer.
2. Each time you press the **FAST BACKWARD** button, the speed increases (x2, x4, x16, x32, x64).
3. If you press the **PLAY** button, the fast backward operation stops and the programme is played at normal speed.

Note: You can fast backward back to the start of a recording or to the start of the buffer. When you reach the start point the programme will play at normal speed automatically.

Slow Motion

1. Press the **SLOW** button to playback in slow motion.
2. Each time you press the **SLOW** button, the playback speed becomes slower.
3. Press the **PLAY** button to play the programme at normal speed.

Pause

1. Press the **PAUSE** button to pause the current programme.
2. If you press the **PAUSE** button once again, the programme is resumed from that point.

Note: Pressing **PAUSE** while watching live TV will increase the delay from the point you have paused to the live broadcast. You will be able to use the **FAST FORWARD** or **SKIP FORWARD** functions during this time. To go directly to the live broadcast press the **STOP** button.

12.3 Recording

Using the built-in hard disk drive, you can record a programme without external media devices such as a VCR.

Note:

- Ensure that sufficient disk space is available before recording, the recording will either fail or not record fully if there is insufficient disk space.
- A one hour recording may require 2-3 GB of space depending on the broadcast.
- Radio programmes can be recorded.
- Pressing the **STANDBY** button while recording will not stop the recording. The product will go to standby mode after completing recording.
- Press the **i** button to display the the channel currently recording and i-plate.

12. Personal Video Recorder (PVR)

1. General Recording

1. Press the **RECORD** button to record the programme you are currently viewing. The recording will stop at the programmes end time in the Guide.
2. Press the **RECORD** button again while recording to adjust the recording end time. You can adjust the recording end time using the ◄/► button.

Warning: When using **INSTANT RECORD** please check the end time of the recording and amend where necessary to ensure you record for the amount of time required.

2. Multi-Channel Recording

1. To record another channel, change channels while recording and press the **RECORD** button again.
2. You can record two channels simultaneously.
3. If you change to a third channel and press the **RECORD** button you will be prompted to select one of the other two recordings to cancel.

Note: Recording 2 channels may be limited depending on your connections from the satellite dish; 2 feeds from the dish are required to record 2 channels without limitations.

3. Stop Recording

1. Press the **STOP** button to stop recording one of the two channels.
2. You will be prompted to select one among the current recordings. Select the channel you want to stop recording using the ▲/▼ button.
3. Select ***OK*** and press the **OK** button.

12.4 Bookmark

1. Adding Bookmark

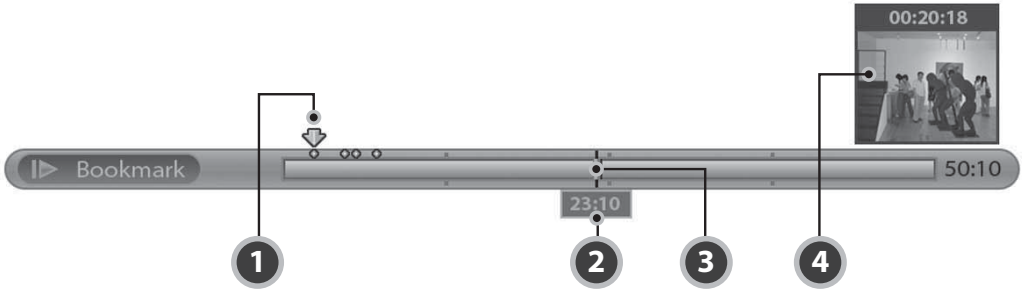
You can jump to a position directly using the bookmark feature in recorded file playback. Use bookmarks to search a specific scene quickly and conveniently.

Press the **ADD BOOKMARK** button at the location you want to set a bookmark while playing back a recorded file. The bookmark icon is displayed at the lower right of the screen.

Note: The bookmark function is available for recorded files only.

2. Bookmark List

1. Press the **BOOKMARK LIST** button after adding a bookmark.
2. Select the location you wish to view using the ◀/▶ button. The bookmark image is displayed at the lower right of the screen.
3. Press the **BOOKMARK LIST** button again to return to the play bar.
4. To delete a location, select the location you want to delete and press the **ADD BOOKMARK** button.



1. Bookmark cursor
2. Watching point time
3. Watching point
4. Bookmark icon

13. Software Update

In order to maintain proper performance of the product, it is essential to have the most up-to-date software. Visit the Humax website to check the latest news and newly released software versions (**http://www.humaxdigital.com/freesat)**. It is recommended that you periodically check for the availability of software update.

13.1 OTA (Over the Air)

OTA - Over the Air Software Updates will be broadcast via satellite for the product when new updates are available. Humax reserves the right for deciding when the software updates will be released.
Follow below to ensure that you receive the OTA Software Updates when they are released:

1. You are connected to a suitable satellite dish and are receiving the all of the freesat service.
2. The signal strength and quality are at a high level; if you are experiencing problems with the signal then please do not continue with the download.
3. The product is in Standby mode each night allowing it to detect, download, and install the updates when broadcast.

Caution:
- Please do not unplug the product from the mains during the software update procedure; this can cause the product not to operate.
- Please do not remove the antenna cable from the dish from the product during the update as this can cause the product not to operate.

Note:
- For information on the release of new software or the changes made please visit www.humaxdigital.com/freesat.
- The download can take between 5 - 10 minutes to complete.
- During the update process you will not be able to use the product.
- During the software update scheduled recordings will not take place.
- You cannot schedule programmes during software update.

1. Software update while watching a programme

When new software is detected, you can choose to download the software immediately or save for later. In case there is no software currently available, select ***Next*** and press the **OK** button to proceed to the next step.

14. Appendix

14.1 Menu Map

 Settings	1. TV Setup 2. Language 3. Time 4. Parental Control 5. Recording 6. Other 7. STB Mode
 Edit Channels	1. Edit Channel List 2. Edit Favourite List 3. Edit Customisabel Channels
 Setup	1. Freesat Tune 2. Manual Tune 3. Software Update 4. Factory Reset
 System	1. Diagnostics 2. Network 3. HDD Control 4. Common Interface

14. Appendix

14.2 Trouble Shooting

For more troubleshooting and advice please visit www.humaxdigital.com/freesat or contact the Humax Customer Helpline.

1. **Freesat Detection Fails / Invalid Postcode**
   - Unplug the Foxsat-HDR from the mains and unplug the cable from your dish which is connected to the LNB IN connection.
   - Check that the "F-type" connector is firmly on the end of the cable.
   - Power on the and follow the Installation Wizard again.

2. **If still not Detecting the signal or verifying postcode**
   - Select NEXT through the Installation Wizard and then FINISH at the end.
   - Press the **OK** button to enter the SETUP menu and Select Manual Tune.
   - Select the following Transponder (11428 H 27500 A) from the list of Transponders.
   - Check that you are receiving stable levels for both Signal Strength & Signal Quality or >50%.
   - If you are not receiving sufficient Signal on this Transponder then you may require an installer to check your Dish Alignment, LNB, cabling, or connectors.

3. **No message displayed on the front panel (the product will not switch on)**
   - Check the main power cable and make sure it is plugged into a suitable power outlet.
   - Check that the mains supply is switched on.
   - Connect the power cable to a different power outlet.

4. **No picture on TV set**
   - Make sure that the product is powered on and in operation mode. (Press the **STANDBY** button)
   - Make sure that the AV cable is firmly connected to the TV.
   - Make sure that the antenna cable is properly connected to the product.
   - Make sure that the antenna setting in the menu is correct.
   - Check the brightness level of the TV.
   - Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.
   - Press the **SOURCE** button if the product is in external input mode.

5. **Poor picture/sound quality**
   - Install the antenna in an obstacle-free place.
   - Make sure there is no mobile phone or microwave oven near the product.
   - Keep the power and the antenna cable for the satellite apart from each other.
   - Check the signal levels and adjust your antenna if the level is too low. The signal level may be affected by weather conditions.

Note: If the antenna is covered with snow or the RF is weakened by heavy rain, the condition of the sound and picture may temporarily be poor. However, the poor sound and picture quality due to weather conditions cannot be accepted as a malfunction of product.

- Check that your dish alignment is correct.
- Change the satellite dish for a larger one as this will increase the signal levels received.
- Replace the LNB with a lower noise factor in cases where the noise factor is too high.
- Replace the LNB with a new one in case it is damaged or out of order.

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6. No or poor sound
- Check that your AV cable is connected correctly.
- Check the volume levels of your TV set and the product.
- Check if the product or TV is on mute.
- Check audio type or soundtrack option in the AV menu.

7. Remote control does not operate.
- To control the product, the top end of the remote control should point directly towards the receiving part of the product.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.

8. Cannot make reservations.
- Check that no previous reservations are conflicting with the new reservation.

9. No password information is given.
- The default password is always **0000**.

10. Channel search does not work.
- Make sure that the antenna setting in the menu is correct.

11. Cannot update new software.
- If there is no message displayed requesting an update, there is no software available for your product at that time.

12. Cannot record progammes.
- The hard disk is full. Delete unnecessary programmes and make space for new recording.
- Check if recording is overlapped with another channel. Stop the current recording or wait until the recording is finished.
- Check that the product is switched on when starting recording.

13. Cannot operate the TSR (Time Shifted Recording).
- The TSR may not be available during the recording. Wait until the recording is finished.
- Delete unnecessary programmes and make space for new recording.

14. The product makes a humming noise.
- The noise is from the fan; the hard disk is operating normally. This kind of noise is inevitable but seldomly noticeable.

15. Cannot playback.
- To play back the recorded file of a scrambled channel, use the Smartcard. In case it has been a long time since you last recorded, this may not work. Contact the product distributor.
- The signal during the recording may be weak or the hard disk too full.

16. Cannot change channel while recording.
- Certain channels may not be changed due to restriction of the tuner or connection type.

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14.3 Error Message

Error message	Possible causes	What to do
No or bad signal	The satellite dish is not pointing at the satellite.	Adjust dish alignment.
	Signal is too weak.	Increase the LNB voltage or connect a signal amplifier.
	Satellite dish is too small.	Change to a larger dish.
	Problem with LNB.	Change the LNB.
	Wrong antenna setting.	Set the antenna correctly.
The channel is scrambled or not available.	The channel has a signal, but no audio or video is provided.	Confirm whether the channel is currently on air.
	The channel has not been deleted by broadcasting company.	Remove the channel from the channel list and check for new transponder details.
	The channel is for data broadcasting.	The channel can only be viewed with the appropriate model that supports data channels.
Audio not available.	The channel has a video signal, but no audio is provided.	Press the audio button on your remote control to confirm that the channel has audio options.
Short LNB	LNB cable is short.	Replace LNB Cable.
	LNB is internally short.	Replace LNB.
	Alien substance is inserted in LNB IN Port and port may be damaged.	Remove the alien substance and contact local Service centre in case damaged has occurred.

14.4 Specification

Tuner & Channel	
Input Connector	F-Type, IEC 169-24, Female
Frequency Range	950MHz to 2150MHz
Signal Level	-25 to -65dBm
LNB Power & Polarisation	• Vertical : +13.3V(+14.3V at high voltage) • Horizontal : +18.3V(+19.3V at high voltage) • LNB Rating : LNB 1 IN: Max. 13/18V 250mA LNB 2 IN: Max. 13/18V 500mA
22KHz Tone	Frequency : 22 ± 4KHz Amplitude : 0.7 ± 0.2V
DiSEqC Control	Version1.0, 1.2, USALS, SCD (Single Cable Distribution)
Demodulation	QPSK, 8PSK
Input Symbol Rate	• DVB-S : 2-45MS/s • DBV-S2 : 10-30MS/s(QPSK/8PSK)
FEC Mode	DVB-S: Auto,1/2,2/3,3/4,5/6,7/8 DVB-S2: Auto,1/2,3/5,2/3,4/5,5/6,8/9,9/10 (QPSK) Auto,3/5,2/3,3/4,5/6,8/9,9/10 (8PSK)
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG-2 MP@ML, MPEG4 HD HP@L4, PAL
Input Rate	15MB/s Max
Video Format	4:3, 16:9
Video Resolution	1080i, 720p, 576p, 576i
Audio Decoding	MPEG-1 Layer II, Dolby-AC3 Audio
Audio Mode	Single channel/Dual channel/Joint stereo/Stereo

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Memory	
Flash Memory	16MB
RAM	256MB
EEPROM	8KB
Audio/Video	
Video	TV-SCART(CVBS,S-Video,RGB) VCR-SCART(CVBS, S-Video) RCA-Type(CVBS), HDMI/HDCP
Audio	TV-SCART, VCR-SCART, Audio L/R, S/PDIF(Digital Audio Output)
Data Port	
USB	USB 2.0 Host (5 V⎓ 500mA Max.)
Power Supply	
Input Voltage	90-250V a.c., 50/60Hz
Type	SMPS
Power Consumption	Max. 50W
Protection	Separate internal fuse. The input should be protected against lightning.
Physical Specification	
Size	380mm × 55mm × 252mm
Weight (Net)	3.1kg
Operating Temperature	0 ºC to +45 ºC
Storage Temperature	-10 ºC to +70 ºC

14.5 Glossary

1. **DiSEqC (Digital Satellite Equipment Control)**
   A DiSEqC compatible receiver relies on a switching box which detects the 22kHz tone pulsing rapidly on and off. In this way, a specially designed receiver can control numerous LNBs through a DiSEqC switching box.

2. **Dolby Digital**
   An encoding system that digitally compresses up to 5.1 discrete channels of audio (left front, centre, right front, left surround, right surround) into a single Bitstream. A low frequency effect (LFE) channel is included providing the sound needed for special effects.

3. **DVB (Digital Video Broadcasting)**
   Set of standards that define digital broadcasts using satellite, cable or terrestrial systems.

4. **EPG (Electronic Programme Guide)**
   An electronic equivalent to a printed television listings magazine; it is an application used with digital set-top boxes and digital television sets to list current and scheduled programs that are or will be available on each channel, including a short summary or commentary for each program. The information supplied in the EPG is sent and updated by the channel broadcaster.

5. **FEC (Forward Error Correction)**
   A technique for error control of data transmission.

6. **Frequency**
   The property of a signal measured in cycles per second (=Hz).

7. **FTA (Free- To-Air)**
   An unscrambled broadcaster allowing customers to view channels or services without paying any subscription.

8. **HDD (Hard Disk Drive)**
   The primary computer storage medium, which is made of one or more aluminum or glass platters, coated with a ferromagnetic material.

9. **Hi-Fi (High Fidelity)**
   The characteristics of audio devices that can play back all the audio frequencies a person can detect, which is the range of 16Hz~20KHz. Sometimes it is used to indicate good quality of audio devices such as stereo tape recorders.

10. **LNB (Low Noise Block)**
    A device that is mounted on an arm facing your satellite dish, focusing on satellite signals. A LNB converts signals received from satellite to a lower frequency and sends them to a satellite receiver via coaxial cable.

11. **OSD (On Screen Display)**
    OSD displays the basic information necessary for the users to configure monitor or TV settings. OSD information may include brightness, contrast, tuning, RGB adjustment, and screen size and position.

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12. OTA (Over the Air)
A standard for the transmission of software for equipment, through a broadcast system. Manufacturers reserve the right for deciding the release of the software for their products.

13. Polarisation
The direction of the electrical and magnetic fields of a signal. Satellites use both vertical and horizontal polarisation so a frequency can be used twice.

14. PVR (Personal Video Recorder)
Video recorder that can record and playback programmes directly using the embedded hard disk drive(s).

15. PID (Packet Identifier)
A set of numbers identifying stream packets contained within a single data stream.

16. QPSK (Quaternary Phase Shift Keying)
Digital modulation technique in which the carrier phase can have one of four possible values.

17. RF (Radio Frequency)
Television signals are modulated onto RF signals and are then demodulated by your television's or STB's tuner.

18. SCART
A 21-pin connector standard to connect two pieces of Audio-Visual equipment such as a TV and a VCR. Each device will have a 21-pin female connection; a cable with male connection at both ends is used for connecting the devices.

19. S/PDIF (Sony/Philips Digital Interface format)
A standard format for the transfer of digital audio signals. It allows the transfer of digital audio between two devices without any conversion to and from analogue, which could degrade the signal quality.

20. S-Video (Super-Video)
Sometimes referred to as Y/C video; a technology for transmitting video signals via a cable. It is a video signal transmission in which the luminance (brightness) and the chrominance (colour) signals are transmitted separately to achieve superior picture clarity.

21. Transponder
A satellite is divided up in parts called transponders. A transponder is one distribution section of the satellite. Each transponder can be used for distribution of several channels or services.

22. Trick-Play
Pause, Fast Forward/Fast Backward, Slow Motion, Instant Replay, Commercial Skip, Repeat A-B.

23. TSR (Time Shifted Recording)
A function that records the present programme temporarily to support trick-play.

14.6 Service and Support

Information concerning troubleshooting, software upgrade and product support is provided in the following websites and call centres. Should your product require warranty service, please contact your local retailer to obtain the appropriate authorization.

UK	
Tel:	0844 669 8800
Opening Hours:	Mon-Fri: 09:00-17:30 Excluding bank holidays Calls charged at local rate from a BT landline. Other operators may vary.
E-mail:	freesat@humax-digital.co.uk
Website:	www.humax-digital.co.uk / www.freesat.co.uk
Language:	English

14. Appendix

14.7 Remote Control Code List

1. Using the Universal Remote Control

1. Select the mode(PVR, TV, DVD, AUDIO) you want to set by pressing the corresponding button on the remote control. The button will blink once.
2. Keep pressing the button for 3 seconds until the button lights on.
3. Enter the 3-digit code. Every time a number is entered, the button will blink. When the third digit is entered, the button will blink twice.
4. If a valid 3-digit code is entered, the product will power off.
5. Press the **OK** button and the mode button will blink three times. The setup is complete.
6. If the product does not power off, repeat the instruction from 3 to 5.

Note:
- When no code is entered for one minute the universal setting mode will switch to normal mode.
- Try several setting codes and select the code that has the most functions.

Remote Control Function List

The keys on the remote control function as in the list below.

Note: Some keys may not function depending on the product.

Button	TV	DVD	AUDIO
STANDBY	POWER	POWER	POWER
	MUTE	MUTE	MUTE
PVR			
TV			
DVD			
AUDIO			
1	DIGIT 1	1	INPUT 1
2	DIGIT 2	2	INPUT 2
3	DIGIT 3	3	INPUT 3
4	DIGIT 4	4	INPUT 4
5	DIGIT 5	5	INPUT 5
6	DIGIT 6	6	INPUT 6
7	DIGIT 7	7	INPUT 7
8	DIGIT 8	8	INPUT 8
9	DIGIT 9	9	INPUT 9
0	DIGIT 0, 11	0	INPUT 0
TV Portal			
MENU	MENU	MENU	MENU/MODE

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Button	TV	DVD	AUDIO
▶	TEXT EXPAND	PLAY	PLAY
II	TEXT HOLD	PAUSE	PAUSE
■	PIP INPUT	STOP	STOP
●	PIP MOVE	RECORD, OPEN CLOSE	RECORD
◀◀	PIP OFF	REWIND, SEARCH REVERSE; SCAN	DVD SEARCH REW, CD SEARCH REW, REW
▶▶	PIP	FAST FORWARD, SEARCH FORWARD; SCAN	FAST FORWARD, DVD SEARCH REW, CD SEARCH REW, REW
⏮	TEXT MIX	SKIP -, TRACK -, CHAPTER -	DVD SKIP -, CD SKIP -, SKIP -
⏭	TEXT OFF, TV	SKIP, TRACK +, CHAPTER +	DVD SKIP+, CD SKIP +, SKIP +
RED	RED	RED	RED
GREEN	GREEN	GREEN	GREEN
YELLOW	YELLOW	YELLOW	YELLOW
BLUE	BLUE	PROGRAMME	BLUE
MEDIA			
GUIDE	GUIDE	GUIDE	DSP MODE
OK	OK	OK	OK
UP	UP	UP	UP
LEFT	LEFT	LEFT	LEFT
RIGHT	RIGHT	RIGHT	RIGHT
DOWN	DOWN	DOWN	DOWN
EXIT	EXIT	EXIT, RETIRN	EXIT
BACK	LAST, RECALL; PP; LAST CHANNEL	CLEAR	REPEAT
VOL+	VOL+	VOL+	VOL+
VOL-	VOL-	VOL-	VOL-
ⓘ	INFO, OSD; DISPLAY	INFO, OSD; DISPLAY	INFO
LIST		LIST	
P+	P+	P+	P+
P-	P-	P-	P-
TEXT	TEXT	PVR MENU	
		AUDIO, LANGUAGE	SURROUND
SUB	SUBTITLE, LANGUAGE; CC	SUBTITLE	

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Button	TV	DVD	AUDIO
TV/RADIO	TV/DTV ATV/DTV; D/A; DTV/TV; DTV; DIGITIAL	HDD, DVD/HDD	BAND
OPT+			RANDOM
📖	TEXT SUBPAGE TEXT TIME		RANDOM
📖	TEXT INDEX	TITLE	
⏯	TEXT POSITION TEXT CANCEL; TEXT UPDATE	SLOW; STEP	
SOURCE	SOURCE, AV, 55INPUT; TV/AV	SOURCE, TV/DVD, TV/DISK	SOURCE, FUNCTION
SLEEP	SLEEP	SLEEP	SLEEP
V-FORMAT	TEXT SIZE; TEXT EXPAND; FTB		
WIDE	WIDE, FORMAT, 16:9, ASPECT; ZOOM	ZOOM	

2. TV Code List

Brand	Code
A.R. Systems	102, 006, 080, 066
Accent	006
Acer	261, 278, 305
Acoustic Solutions	210, 312, 324, 370, 386, 428, 477
Acura	002
ADL	224
Admiral	043, 014, 015, 023
Advent	192, 342
Adyson	034, 035
AEG	211, 256, 327, 489
Agashi	043, 034, 035
AGB	094
Agef	014
Aiko	006, 061, 043, 074, 002, 004, 011, 028, 034, 035, 065
Aim	006, 171
Airis	316, 413, 473
Aiwa	139, 141, 445
Akai	102, 006, 098, 144, 145, 111, 061, 043, 074, 148, 232, 280, 128, 122, 461, 109, 462, 489, 094, 084, 083, 065, 035, 034, 033, 028, 023, 011, 004, 002, 154, 321
Akiba	006, 036, 080, 045
Akito	006, 044
Akura	006, 144, 134, 204, 043, 036, 002, 026, 045, 071, 298, 327, 376, 451
Alaron	034
Alba	006, 144, 134, 204, 087, 064, 036, 005, 108, 473, 455, 447, 388, 099, 084, 077, 072, 065, 059, 034, 023, 002
AlfaView	220
All-Tel	190, 238
Allorgan	032, 035
Allstar	006
Amitech	131, 241
Amoi	315
Amplivision	064, 035, 049

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Amstrad	006, 204, 043, 036, 074, 002, 023, 026, 062, 065, 071, 094, 128, 410, 436, 451
Anam	006, 002
Anam National	006, 129
Andersson	210, 211
Anglo	043, 002
Anitech	006, 043, 002, 045
Ansonic	006, 134, 064, 002, 017, 023, 042, 048 , 066, 070, 285
AOC	120, 266, 335
Apollo	083
Apro	420
Arc En Ciel	020
Arcam	034, 035
Ardem	006, 144
Arena	006
Aristona	102, 006
ART	204
Arthur Martin	023
ASA	010, 014, 017, 018, 055
Asberg	006
Asora	002
Asuka	043, 036, 034, 035, 045
Atec	340, 387
Atlantic	006, 032, 034, 042, 049
Atori	002
Auchan	023
Audiosonic	006, 144, 086, 145, 043, 064, 036, 002, 020, 035, 066, 190, 250, 405, 473
Audioton	086, 043, 064, 035
Audiovox	079
Aumark	009
Autovox	014, 032, 035, 056, 097
AVC	472
Avious	352
Awa	111, 005, 019, 002, 003, 035, 079, 271
Axxent	002
Baier	192
Baird	011, 012, 020, 033, 035, 054, 218
Bang & Olufsen	014

Barco	023
Basic Line	102, 006, 134, 204, 036, 080, 002, 023, 035, 045, 053, 066, 211
Bastide	035
Bauer	171, 344
Baur	006, 030, 061, 028, 056, 093, 096, 097, 101
Bazin	035
Beaumark	027
Beko	006, 144, 086, 145, 111, 064, 072, 172, 361, 405
Belson	138, 201, 215
Belstar	204
BenQ	223, 328, 329
Bensten	258, 436, 437
Beon	006, 072
Berthen	134
Best	064
Bestar	006, 064, 066
Bestar-Daewoo	066
Binatone	035
Black Diamond	444, 204, 211
Blackway	036, 045
Blaupunkt	030, 005, 080, 025, 028, 096, 101
Blue Media	340, 387
Blue Sky	102, 006, 144, 134, 204, 145, 087, 036, 080, 091, 119, 045, 215, 229, 254, 265, 310, 361, 380, 445
Blue Star	045
BlueH	391
Boca	361
Boman	256
Boots	002, 035, 044
Bork	265
Bosch	049
BPL	006, 033, 045, 202
Brandt	120, 144, 103, 020, 046, 052
Brimax	380
Brinkmann	006, 134, 086, 072, 095
Brionvega	006, 014, 062
Britannia	034, 035
Brother	043
Bruns	014

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BSR	023
BTC	036
Bush	102, 006, 144, 134, 204, 138, 087, 061, 043, 036, 005, 108, 376, 373, 370, 361, 355, 352, 327, 388, 430, 431, 432, 440, 448, 451, 473, 476, 477, 478, 002, 033, 035, 044, 045, 056, 059, 065, 066, 095, 133, 164, 210, 213, 229, 232, 250
Canton	036
Capsonic	043
Carad	134, 204, 113
Carena	006, 080
Carrefour	006, 005, 010
Carver	025
Cascade	006, 002
Casio	006
Cat	373, 504
Cathay	006, 386
CCE	006
cello	397, 410, 418, 419, 420
Centrum	204
Centurion	006
Century	014
CGE	064, 023, 072
Changhong	180
Chimei	475, 415
Cimline	036, 002
Cineral	079
Cinex	128, 213, 327
Citizen	009
City	002
Clarivox	006, 010, 072
Classic	091
Clatronic	006, 144, 043, 064, 036, 002, 035, 049, 065, 256
Clayton	204
CMS	034
CMS Hightec	035
Concorde	002
Condor	006, 043, 064, 002, 034, 045, 049, 070, 072
Conia	179, 201, 298, 376
Conrac	172
Contec	006, 005, 002, 034
Continental Edison	087, 020, 046
Cosmel	006, 002
Crosley	014, 023
Crown	006, 144, 134, 204, 086, 145, 087, 111, 143, 064, 361, 135, 072, 071, 053, 033, 002
Crown Mustang	135
CS Electronics	036, 034
CTX	395
Curtis Mathes	009, 015, 021, 024, 079
Cybertron	036
Cytronix	246
D-Vision	102, 006, 451
Daewoo	102, 006, 124, 444, 036, 441, 406, 341, 338, 271, 249, 195, 192, 190, 164, 133, 119, 091, 079, 066, 035, 034, 002
Dainichi	036, 034
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Dansai	006, 005, 002, 004, 033, 034, 035
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Denko	043
Denon	021
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Dumont	010, 011, 014, 017, 035
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Dux	006
Dynatech	035
Dynatron	006
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E:max	256, 316
Easy Living	230, 326, 402
Ecco	162
ECE	006
Edison-Minerva	087
Eiki	150
Elba-Sharp	094
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Exquisit	006
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Fenner	002, 066
Ferguson	006, 120, 098, 103, 030, 204, 012, 020, 029, 046, 052, 054, 077, 292, 447, 476
Fidelity	006, 061, 043, 023, 026, 029, 034, 065, 071, 093, 097
Filsai	035
Finlandia	098, 061, 011, 023, 033, 055
Finlux	102, 006, 144, 145, 333, 327, 172, 122, 118, 094, 089, 084, 083, 070, 055, 035, 023, 018, 017, 014, 011, 010
Firstline	102, 006, 144, 134, 204, 061, 341, 267, 265, 250, 215, 172, 119, 097, 070, 066, 056, 050, 035, 034, 033, 011, 002
Fisher	061, 064, 005, 008, 011, 014, 017, 033, 035, 056, 097
Flint	006, 113, 043, 036, 080, 011
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Geloso	002, 023, 066
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GoldHand	034
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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